

FIG.1

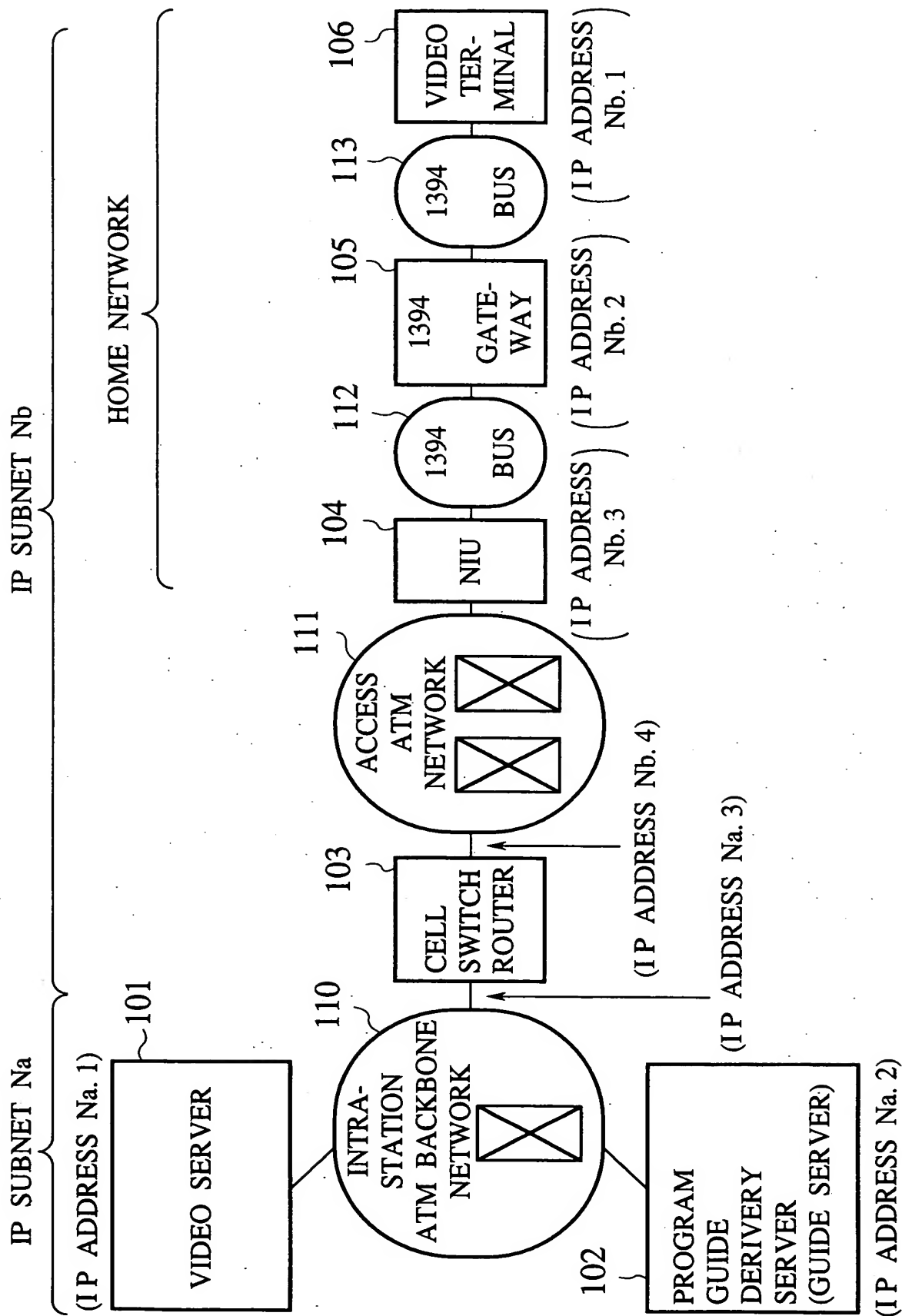


FIG.2

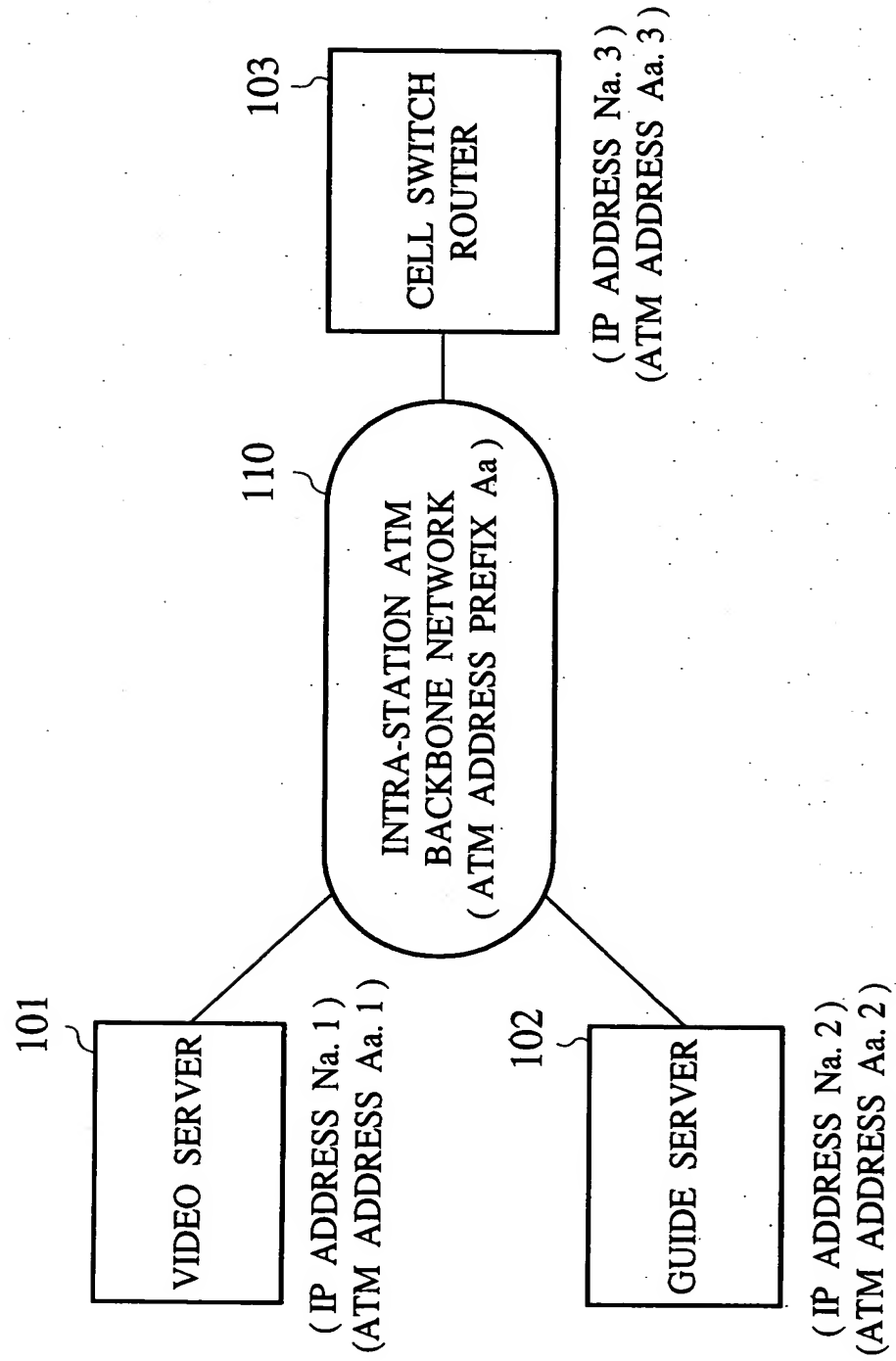


FIG.3

ROUTING/ARP TABLE (EXCERPT) ROUTING/ARP TABLE (EXCERPT)

DESTI- NATION IP ADDRESS	TRANSMITTING SIDE DATALINK ADDRESS	DESTI- NATION IP ADDRESS	TRANSMITTING SIDE DATALINK ADDRESS
Nb. 4	Ab. 2	Nb. 3	E4/Bb. 2

DESTI- NATION IP ADDRESS	NEXT HOP IP ADDRESS	DATALINK ADDRESS	DESTI- NATION IP ADDRESS	NEXT HOP IP ADDRESS	DATALINK ADDRESS
Nb. 1	Nb. 3	Ab. 1	Nb. 1	Nb. 2	E3/Bb. 1
Nb. 1	Nb. 1		Nb. 1	Nb. 1	E1/Ba. 1

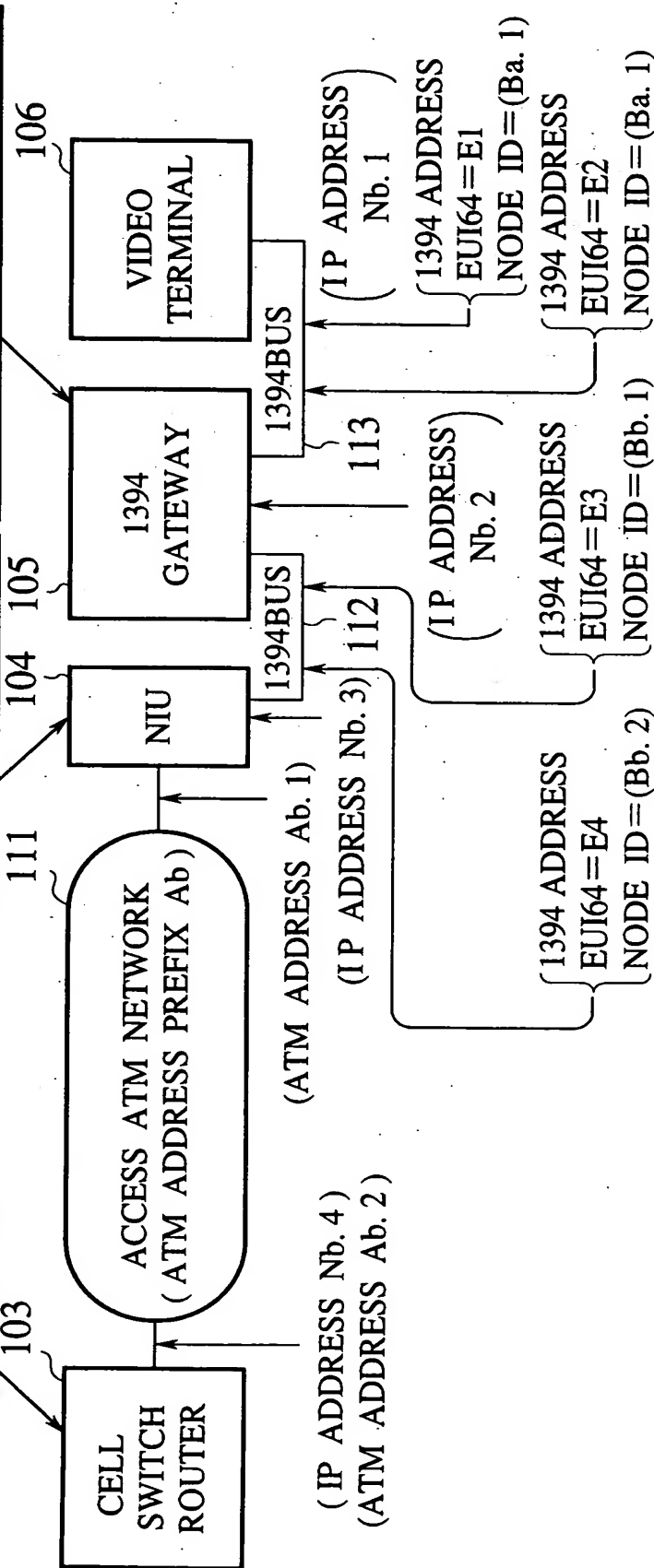


FIG.4

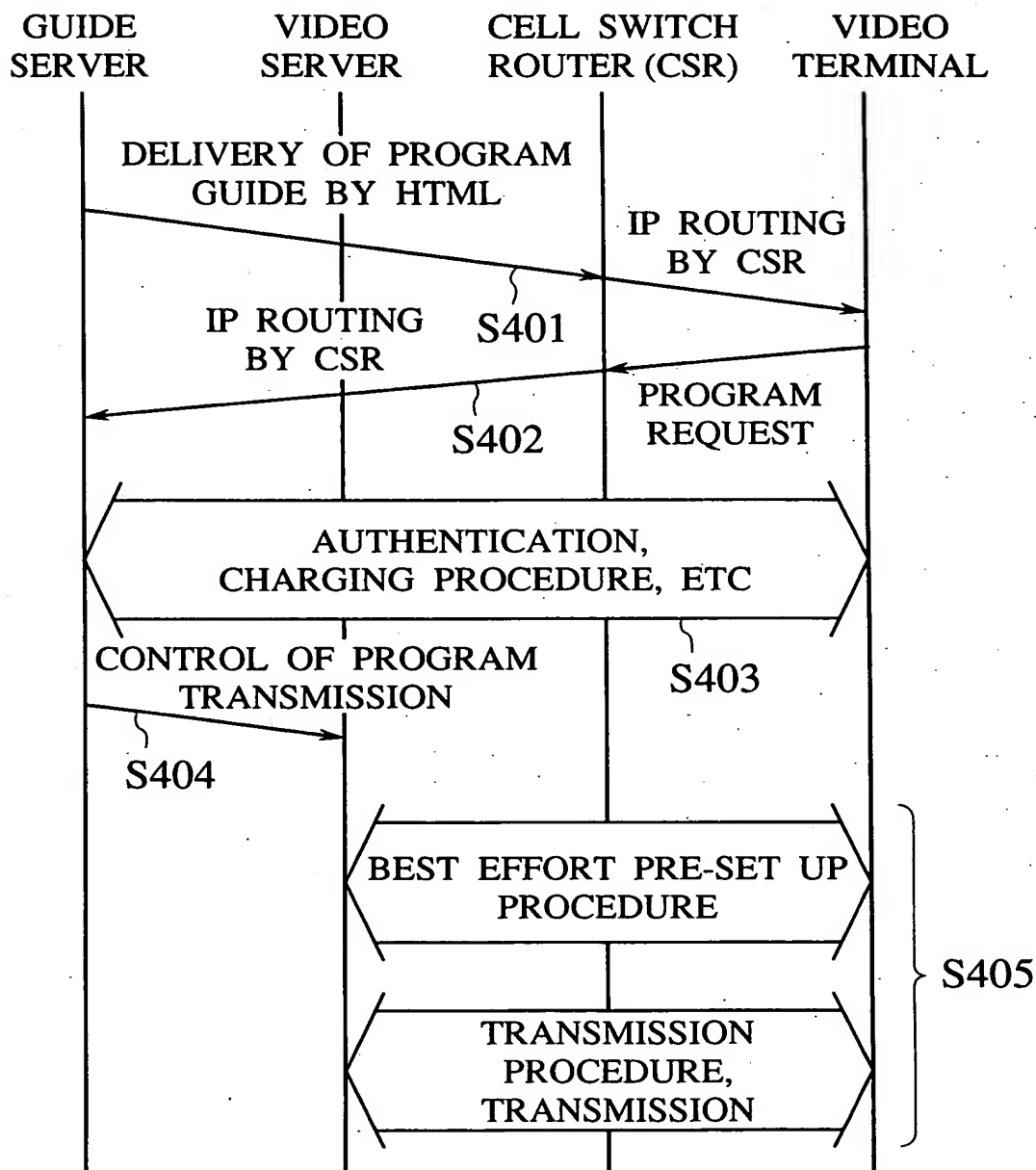


FIG. 5

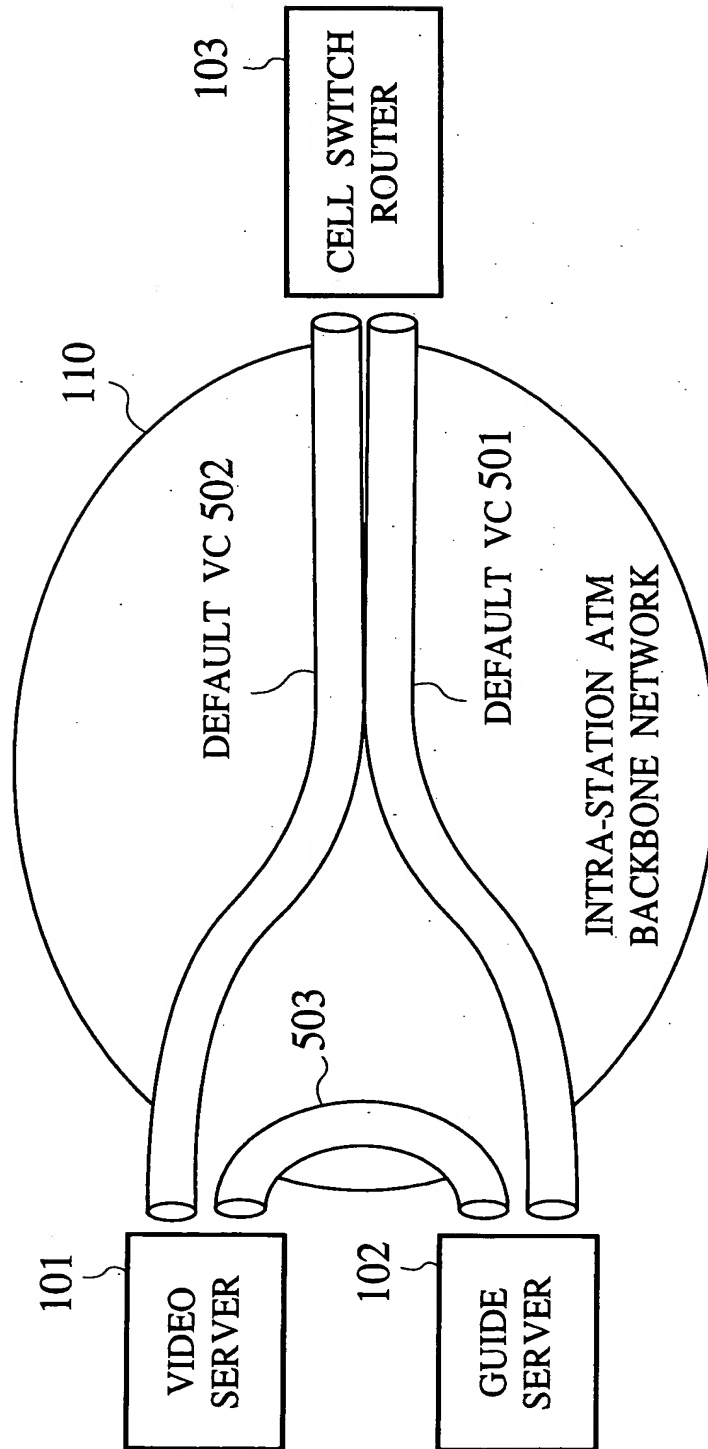


FIG.6

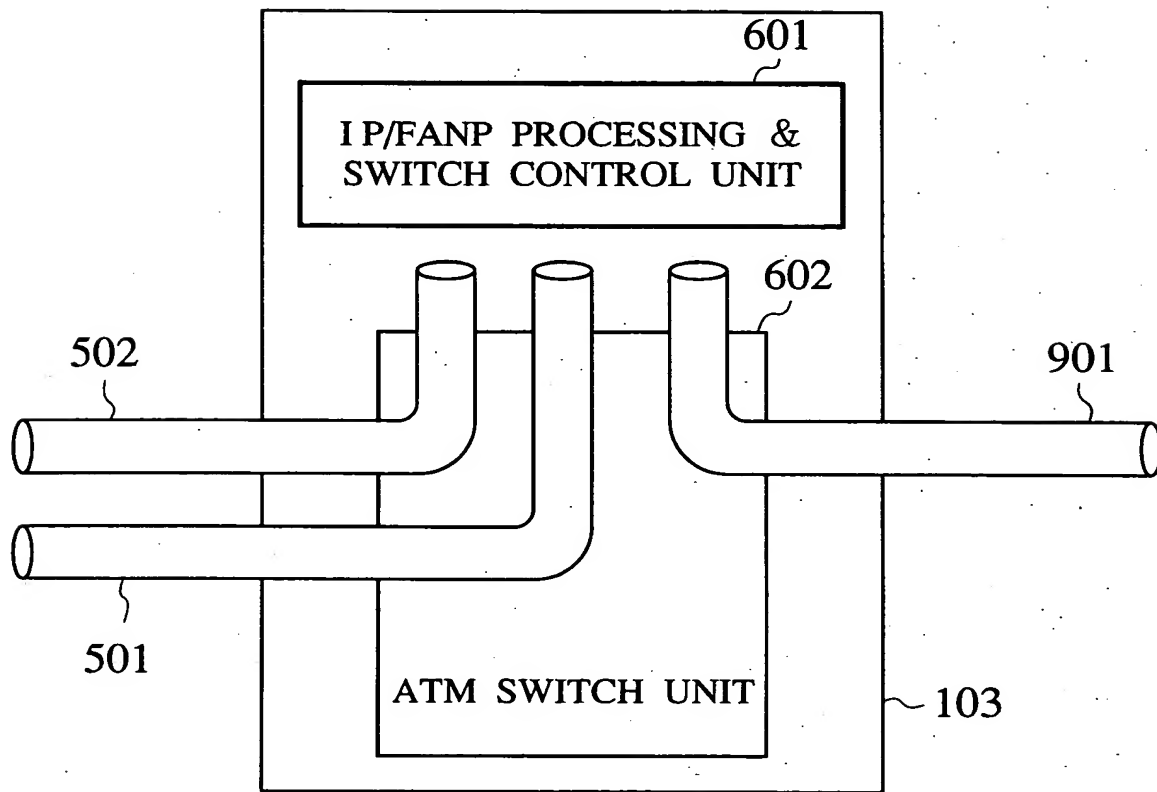


FIG. 7

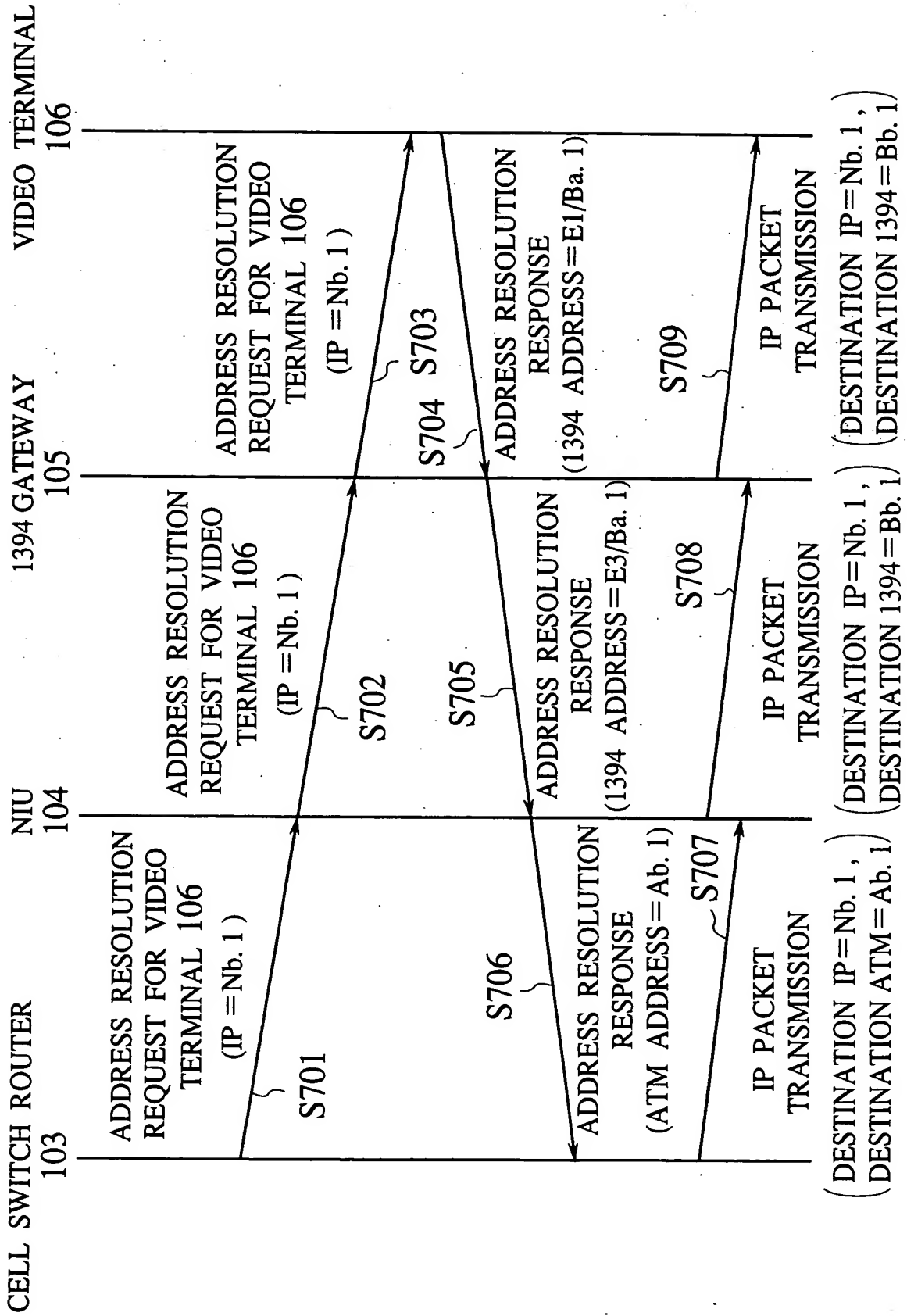


FIG.8

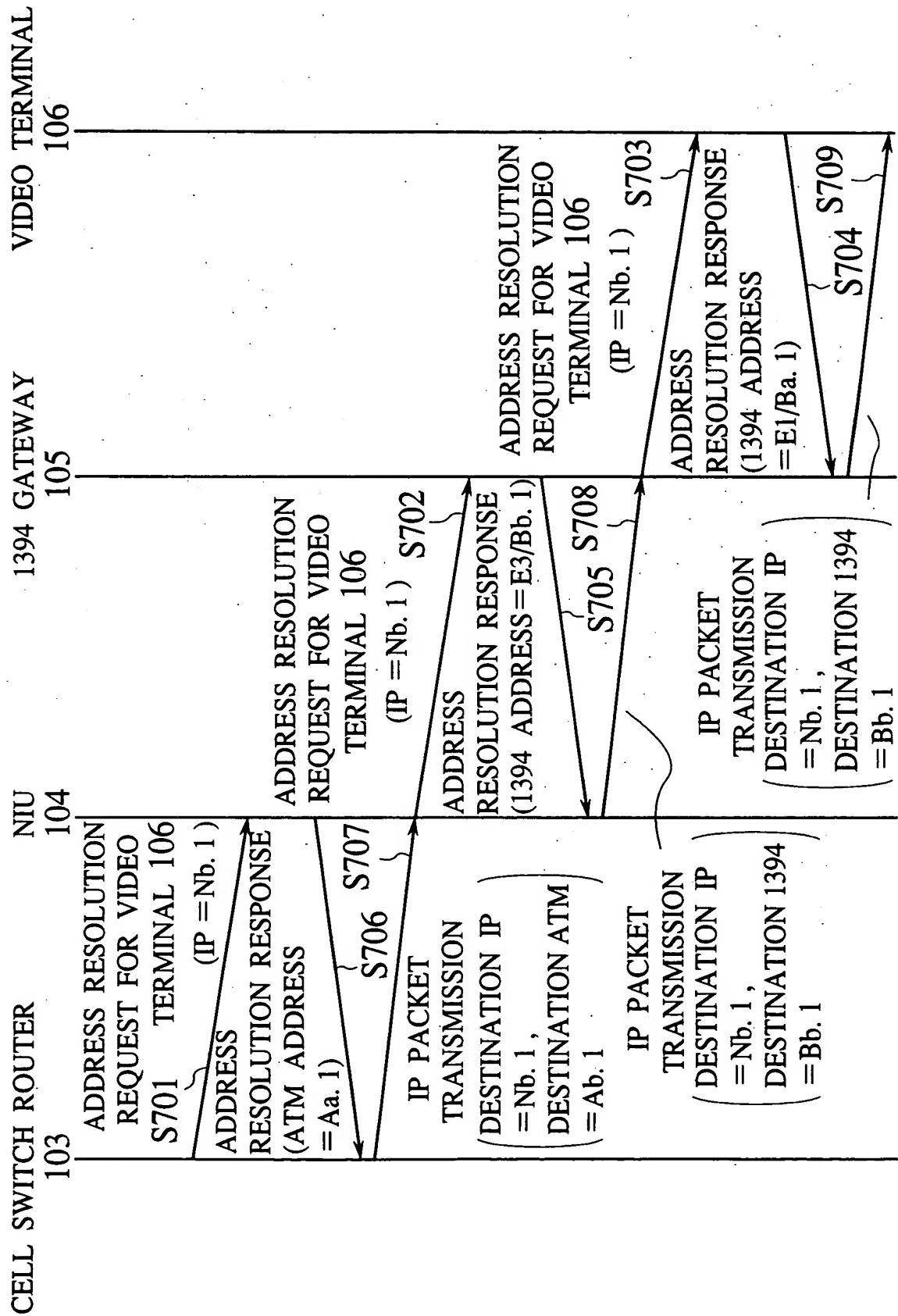


FIG.9

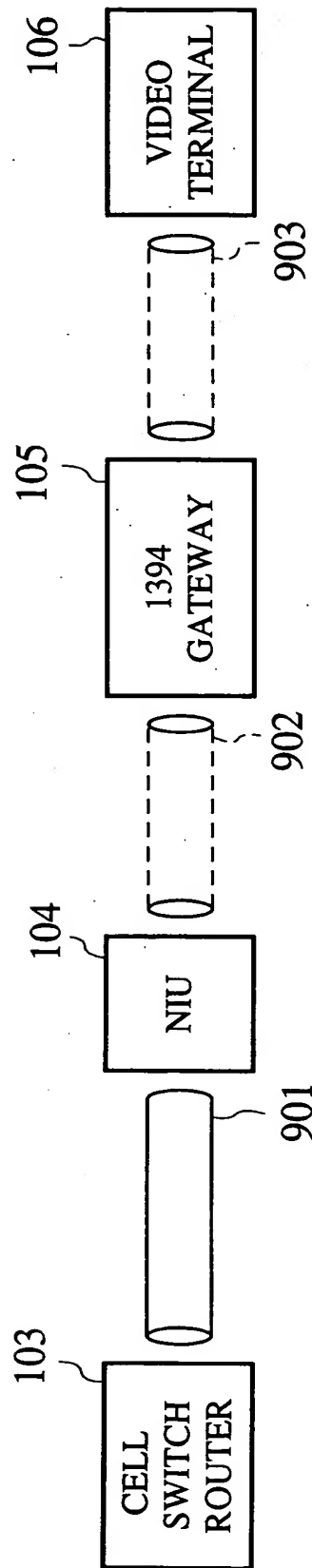


FIG.10

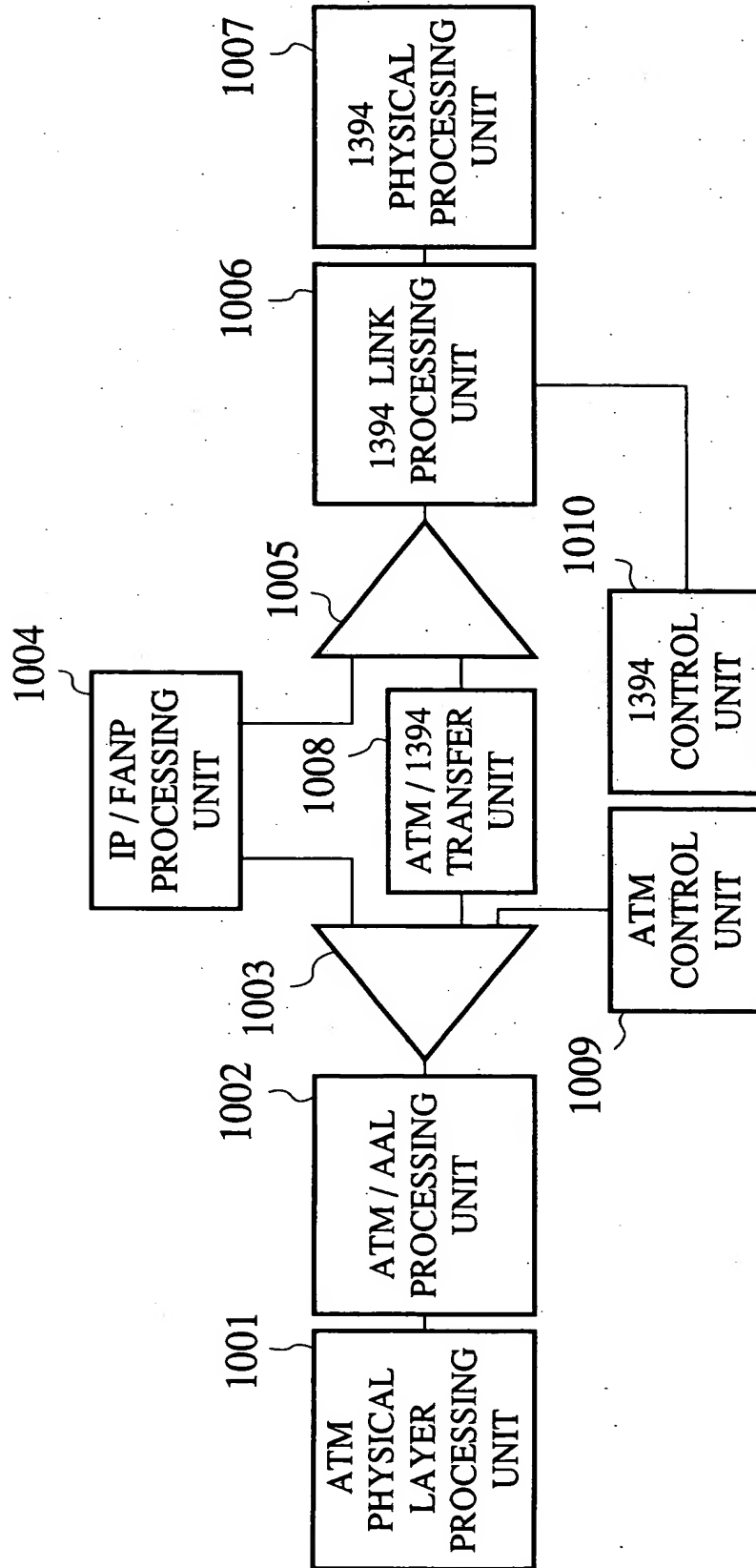


FIG.11

DESTINATION IP ADDRESS	NEXT HOP IP ADDRESS	PHYSICAL PORT	DATALINK PHYSICAL ADDRESS
Nb. 1	Nb. 1	1394 SIDE	Bb. 1
Nb. 2	Nb. 2	1394 SIDE	Bb. 1
Nb. 4	Nb. 4	ATM SIDE	Ab. 2 (OR VCI)
Na	Nb. 4	ATM SIDE	Ab. 2 (OR VCI)
default	Nb. 4	ATM SIDE	Ab. 2 (OR VCI)
- - - -	- - - -	- - - -	- - - -

FIG.12

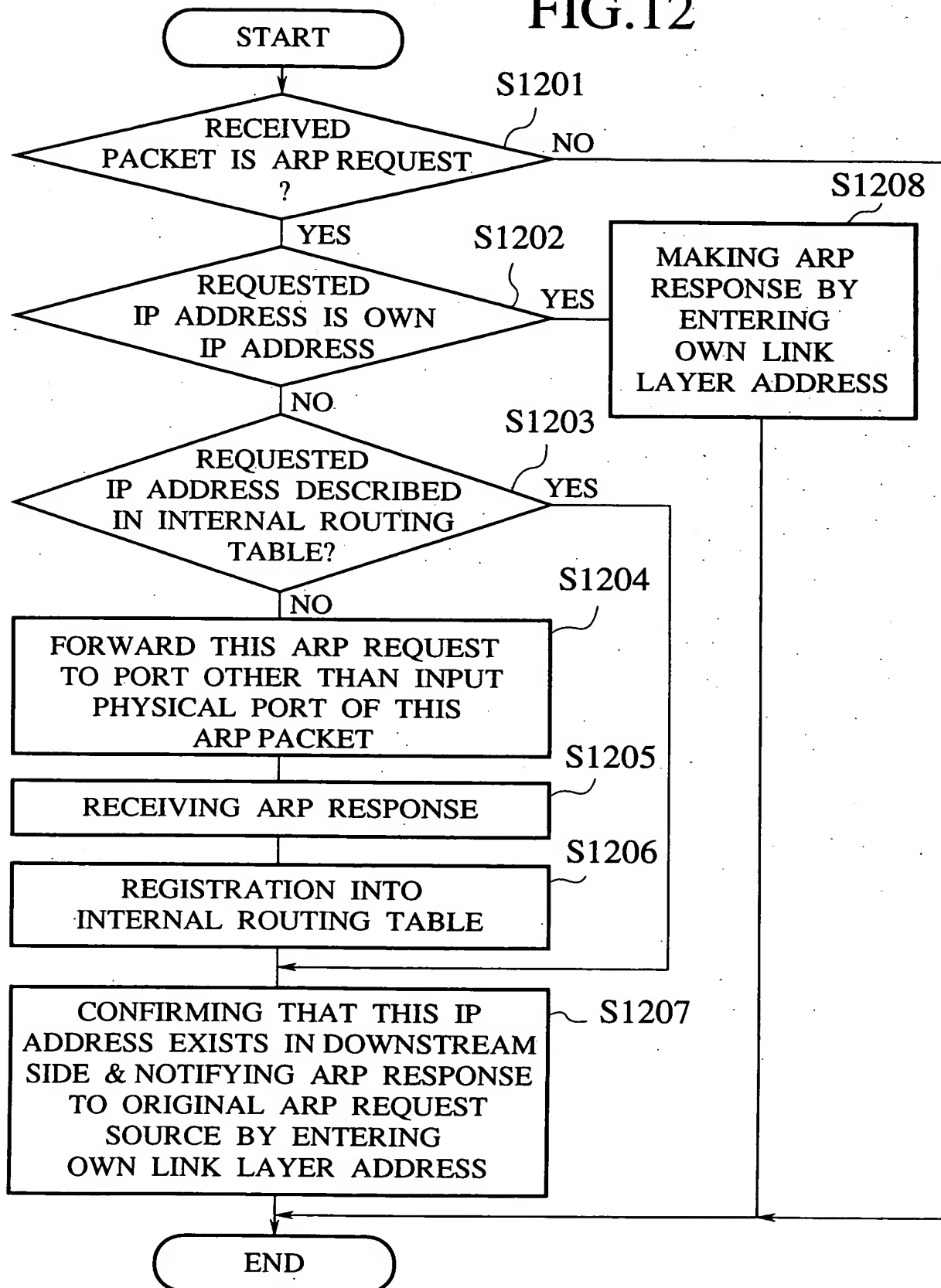


FIG.13

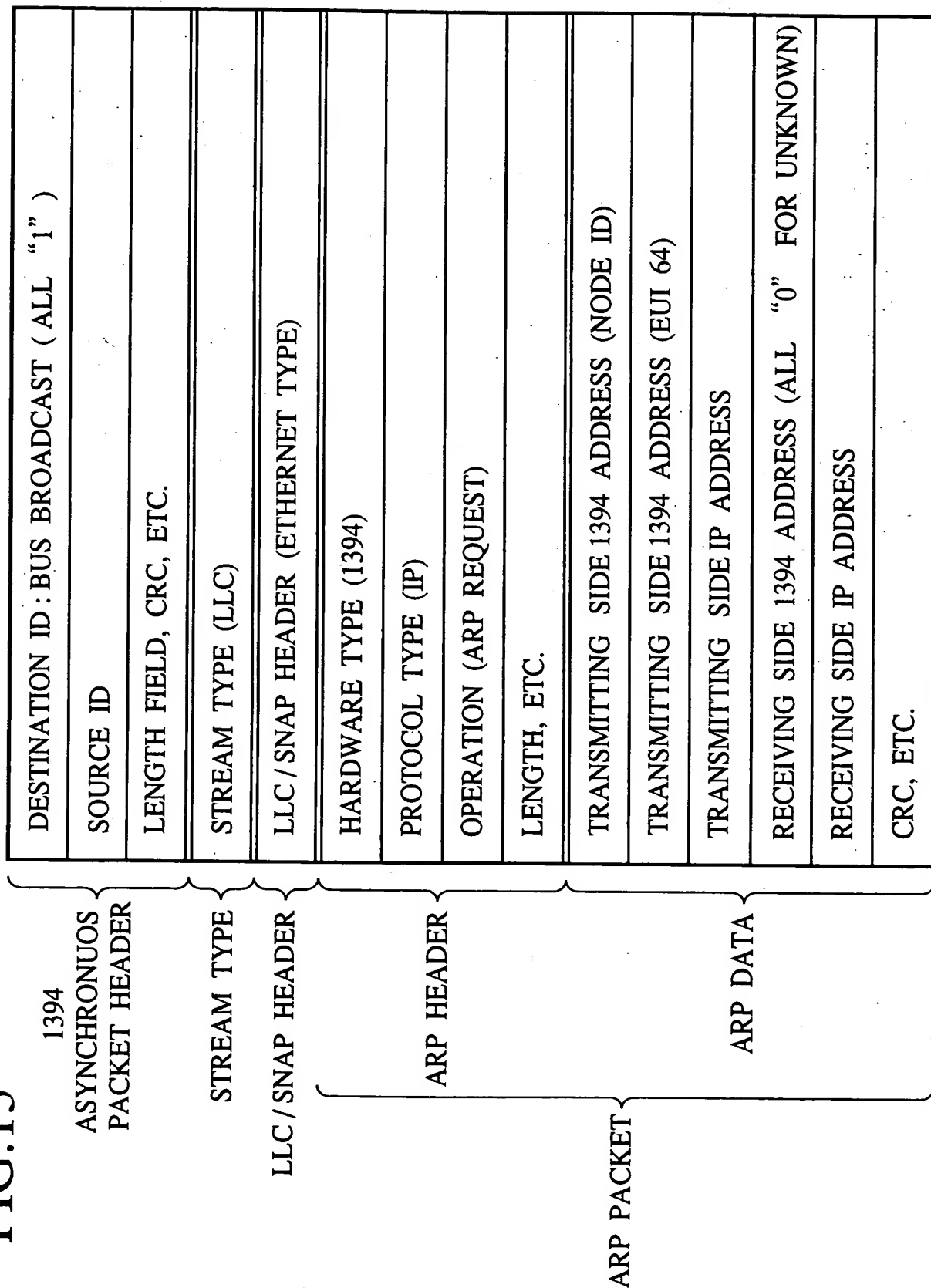


FIG.14

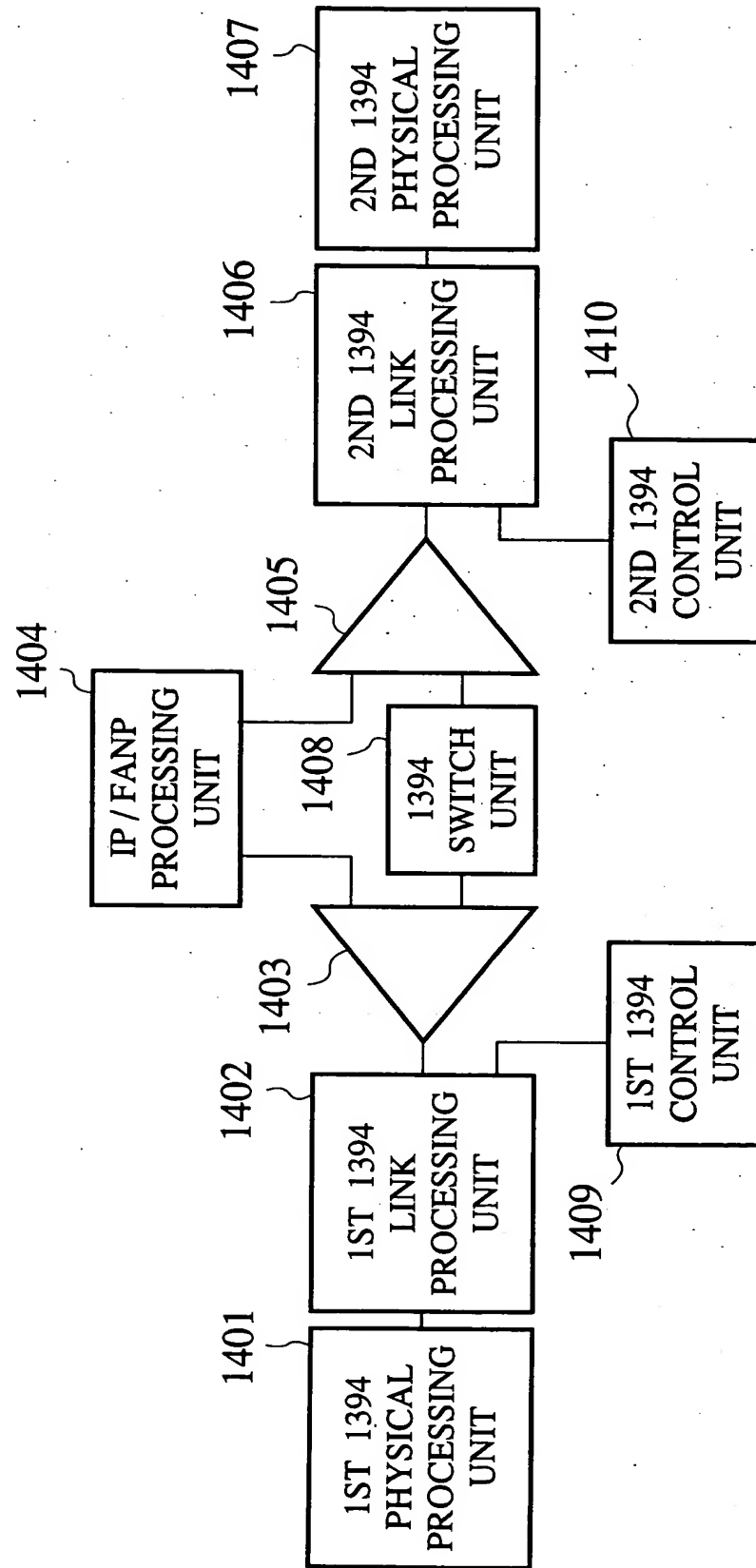


FIG.15

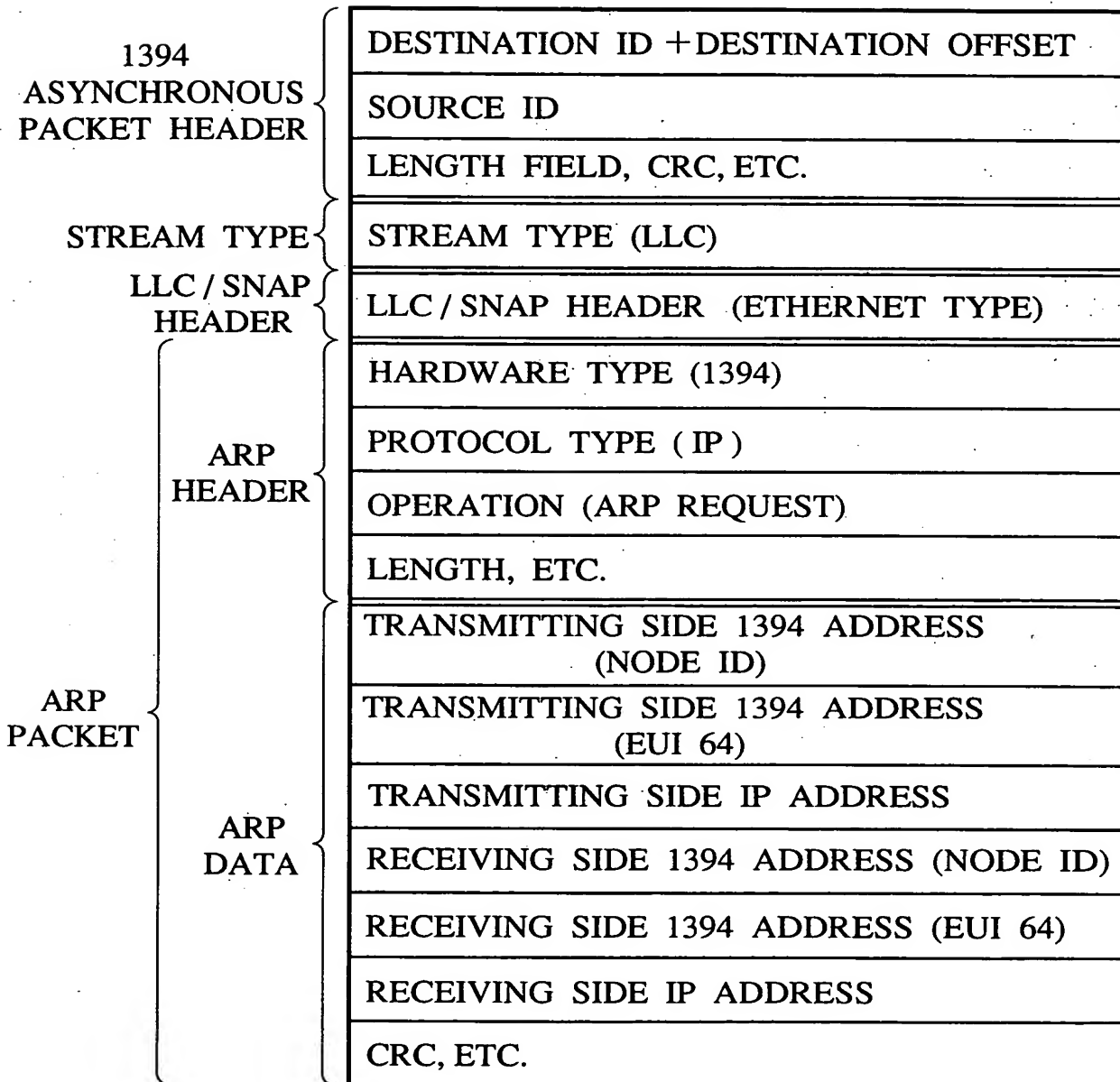


FIG.16

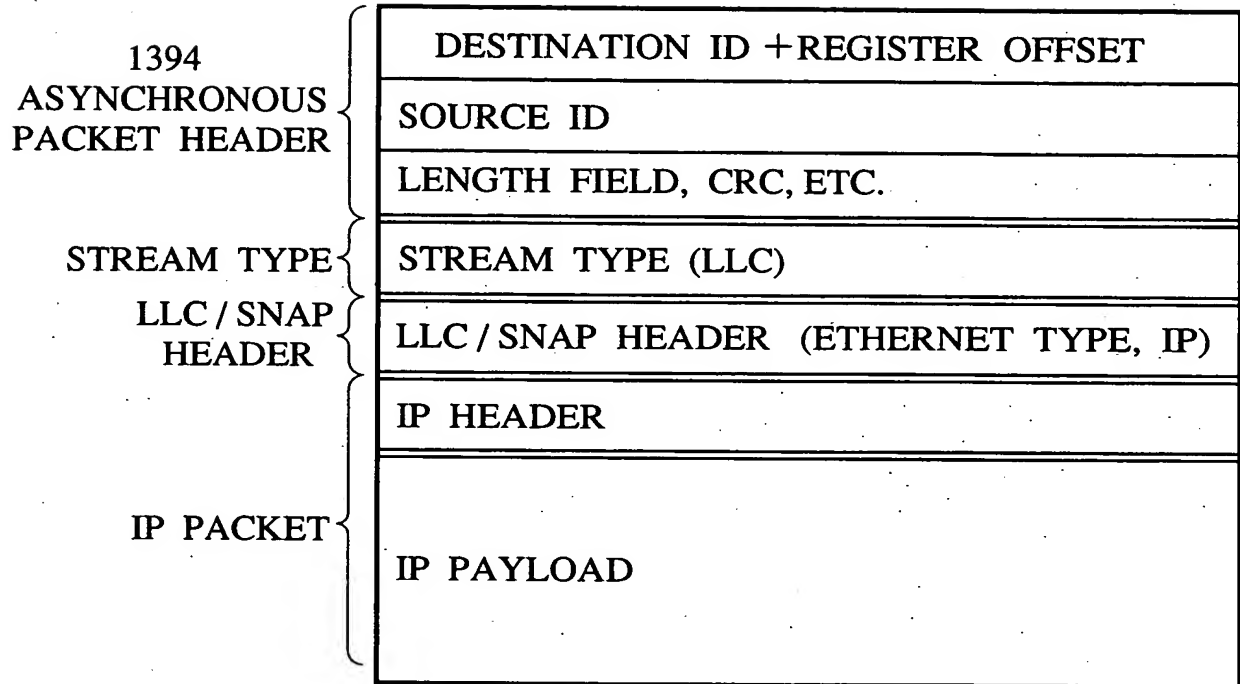


FIG.17

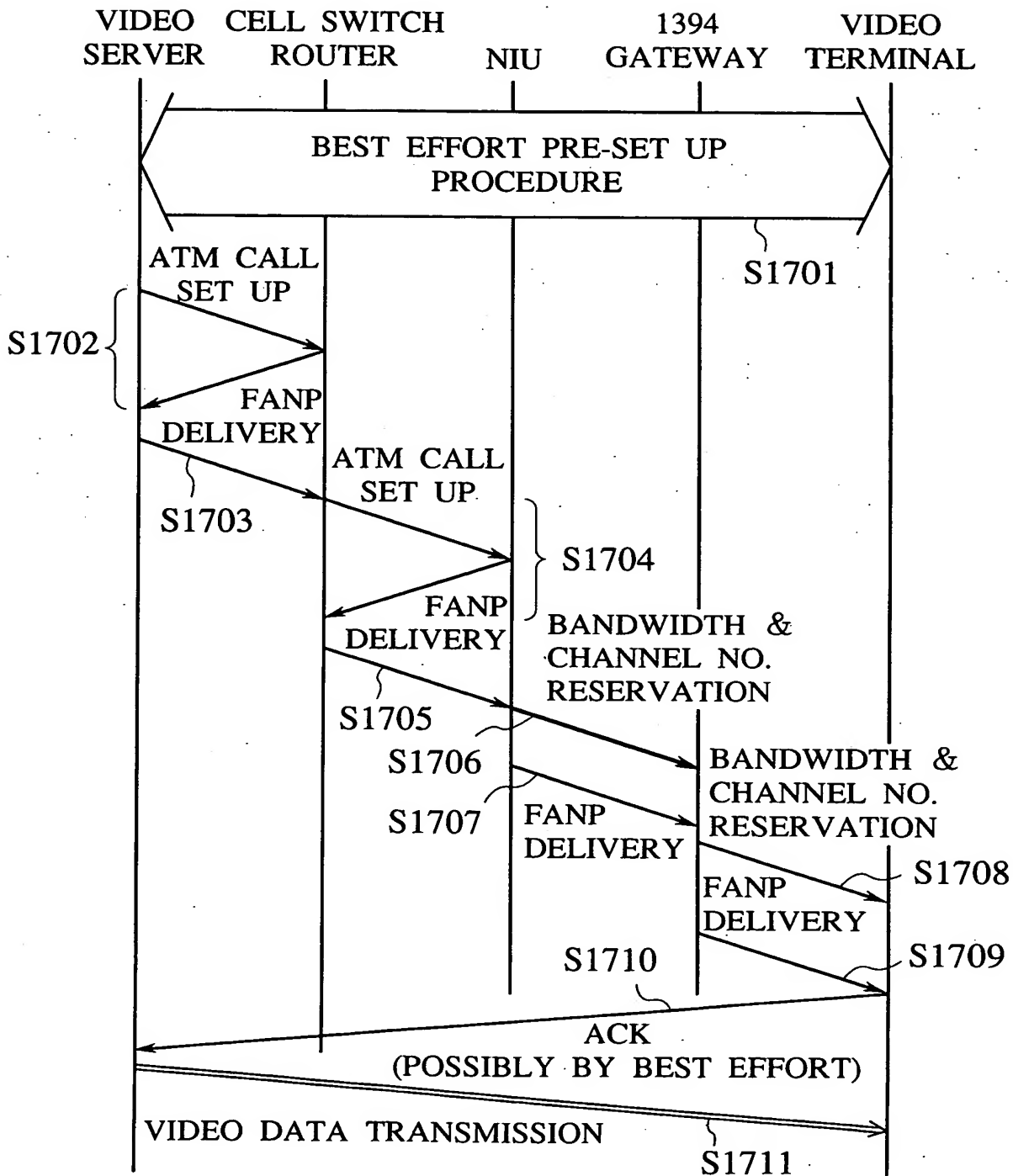


FIG.18

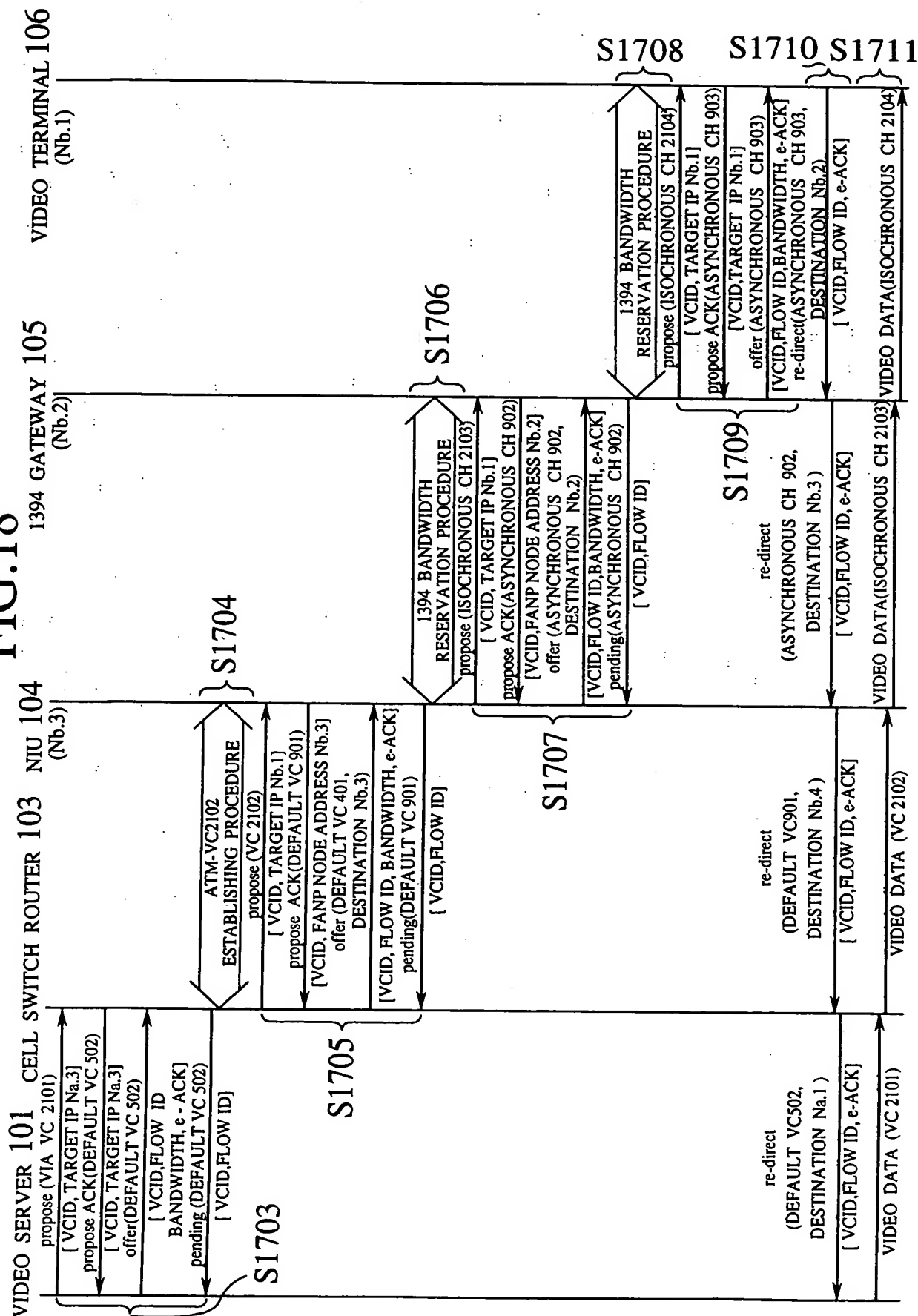


FIG.19

INPUT CHANNEL NO. OR REGISTER OFFSET	ATTRIBUTE	OUTPUT PORT	OUTPUT CHANNEL NO. OR DESTINATION ADDRESS WITH REGISTER OFFSET
# 1	MPEG, 4M	B	# 5
# 3	MPEG, 4M	B	# 7
# 5	AUDIO, 1M	B	# 2
-----	-----	-----	-----

FIG.20

HAEDWARE TYPE (ATM)
PROTOCOL TYPE (IP)
OPERATION CODE (propose / propose ACK / NACK)
SENDER IP ADDRESS
TARGET IP ADDRESS OR FANP TERMINATING NODE IP ADDRESS
VCID

FIG.21

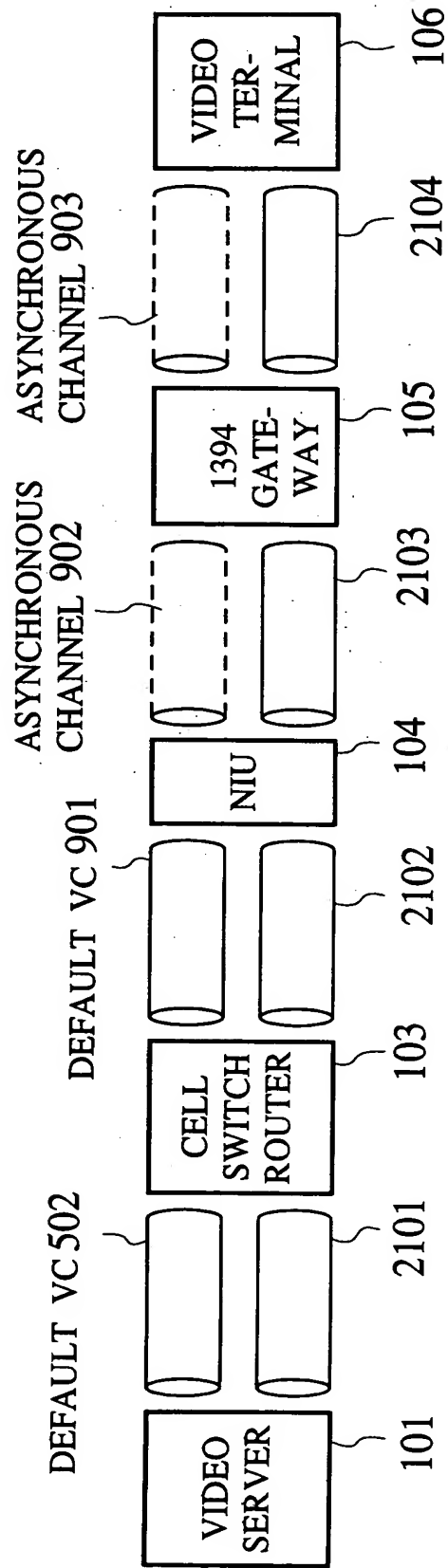


FIG.22

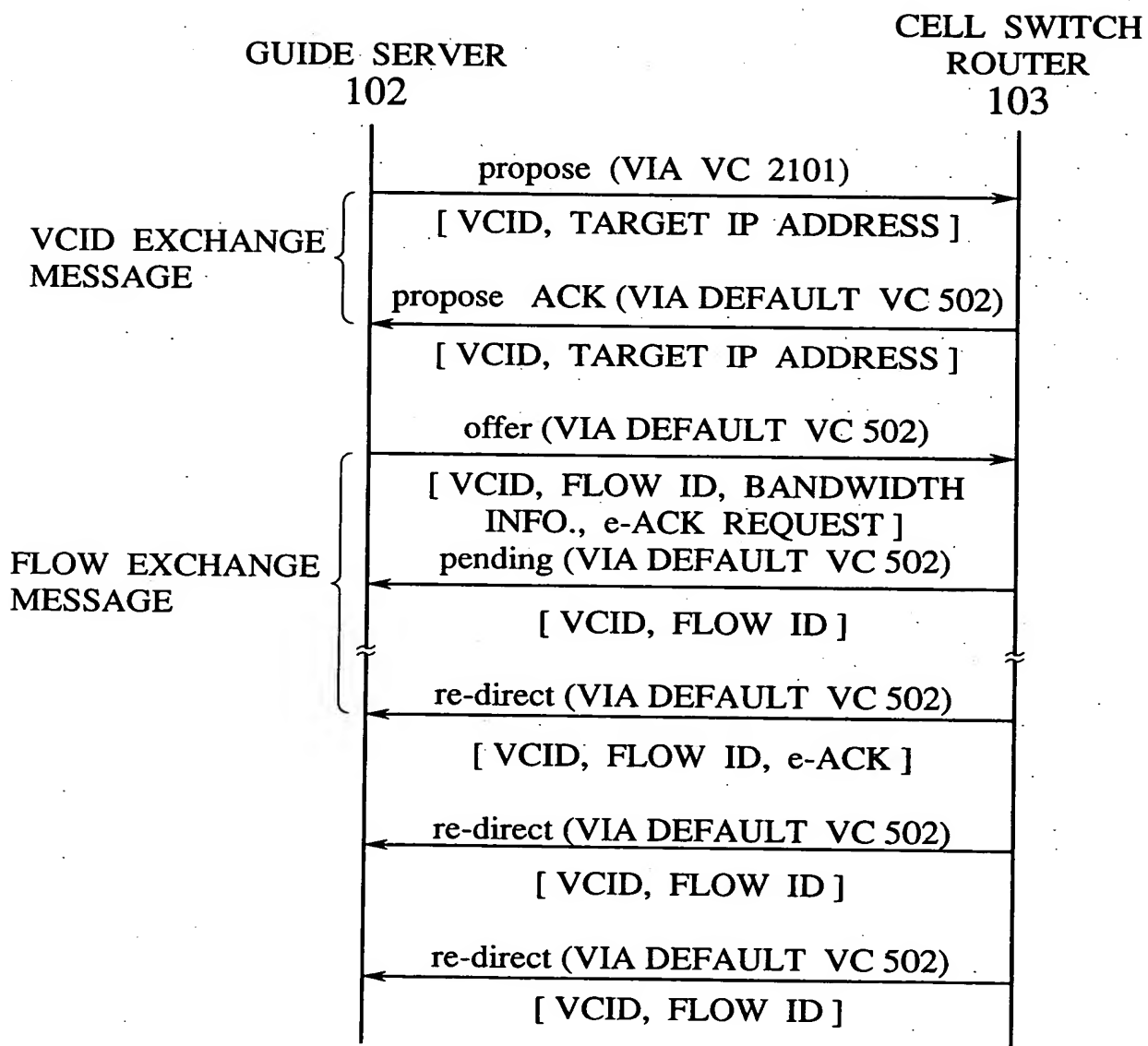


FIG.23

VERSION NO.	OPERATION CODE	CHECKSUM
VCID TYPE	FLOW ID TYPE	ERROR CODE / REFRESH INTERVAL
LENGTH		RESERVED
VCID		
FLOW ID		
TYPE	LENGTH	
VARIABLE		

FIG.24

VERSION=2	OPERATION CODE=1	RESERVED
VCID TYPE	FLOW ID TYPE	RERESH INTERVAL
LENGTH		RESERVED
VCID		
FLOW ID		
TYPE	LENGTH	COMMUNICATION ATTRIBUTE (MPEG)
TYPE	LENGTH	BANDWIDTH (COM- MUNICATION QUALITY)
TYPE	LENGTH	e - ACK REQUEST

FIG.25

VERSION=2	OPERATION CODE=6	RESERVED
VCID TYPE	FLOW ID TYPE	RESERVED
LENGTH		RESERVED
VCID		
FLOW ID		

FIG.26

1394 ASYNCHRONOUS PACKET HEADER			
STREAM TYPE			
LLC / SNAP HEADER			
HARDWARE TYPE		PROTOCOL TYPE=0×800	
SHLen=0	SNUILen=0	OPERATION CODE	
SPLen	THLen=0	TNUILen=0	TPLen
SENDER IP ADDRESS			
TARGET IP ADDRESS OR FANP TERMINATING NODE IP ADDRESS			
VCID			

FIG.27

OPTION	VERSION=2	OPERATION CODE=1	RESERVED
	VCID TYPE	FLOW ID TYPE	RESERVED
	LENGTH		RESERVED
	VCID		
	FLOW ID		
	TYPE	LENGTH	e - ACK RESPONSE
	-----	-----	-----

FIG.28

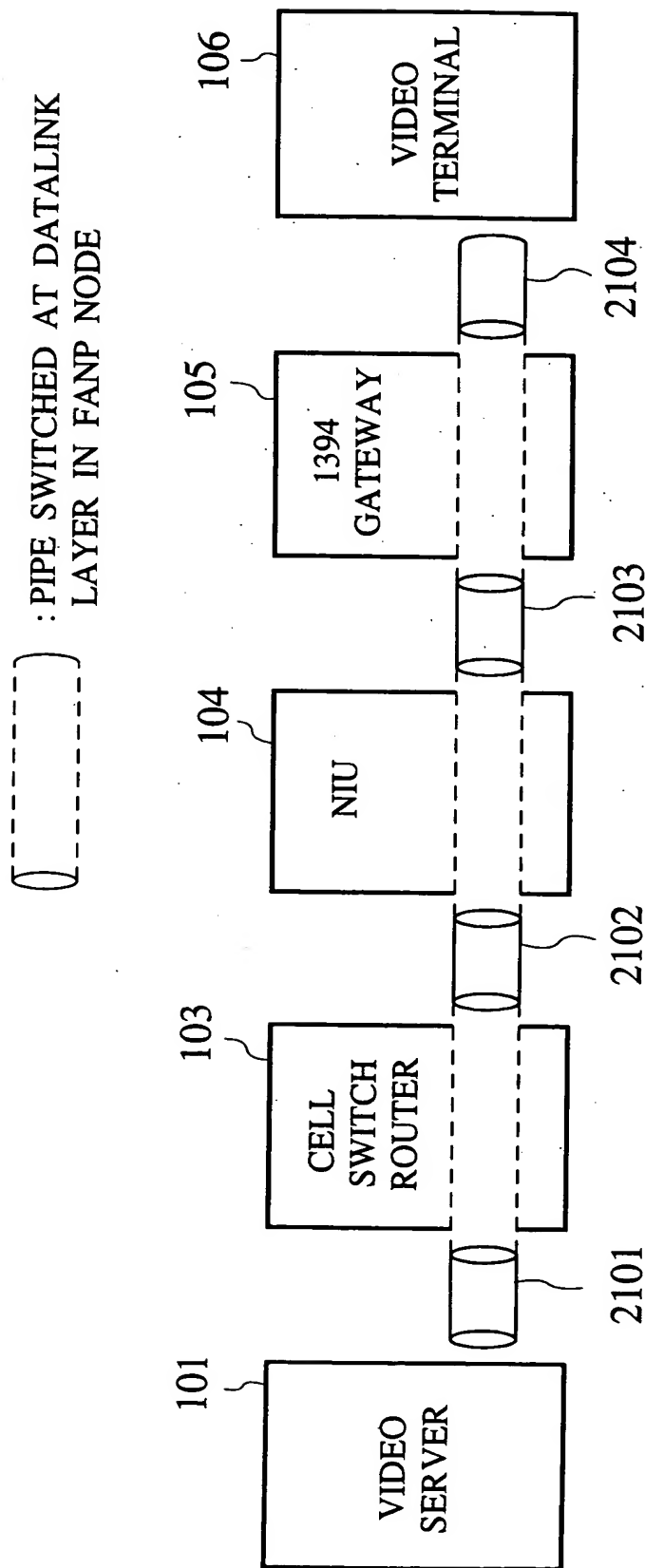


FIG.29

FANP NODE 2901

FANP NODE 2902

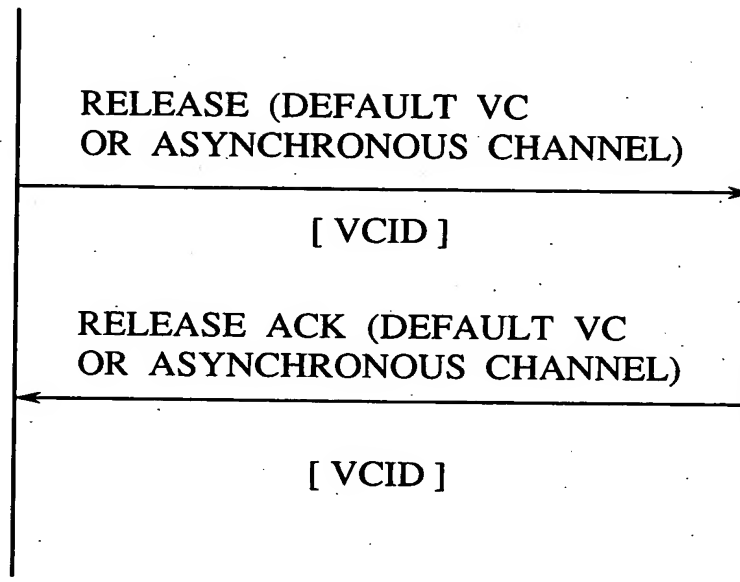


FIG.30

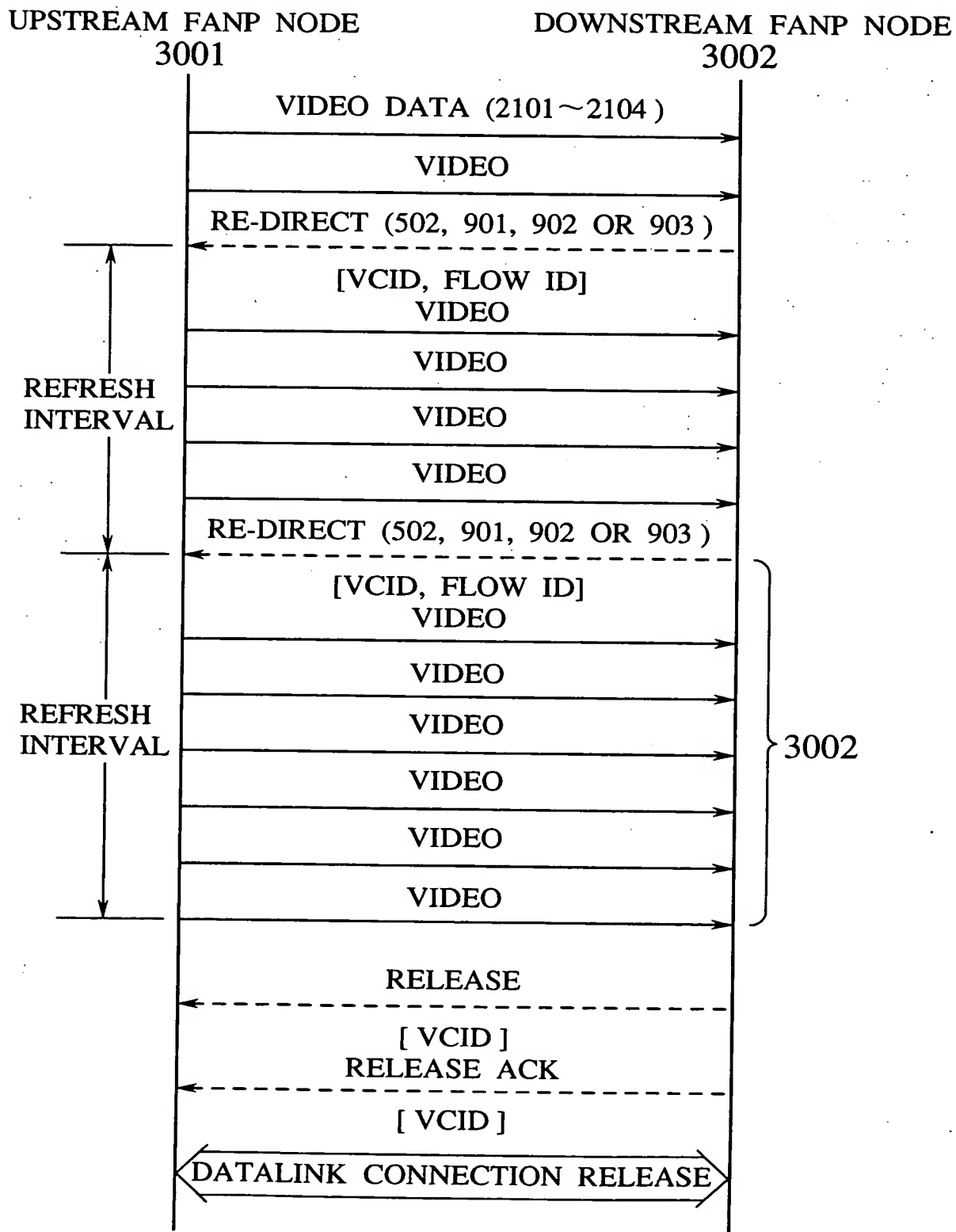


FIG.31

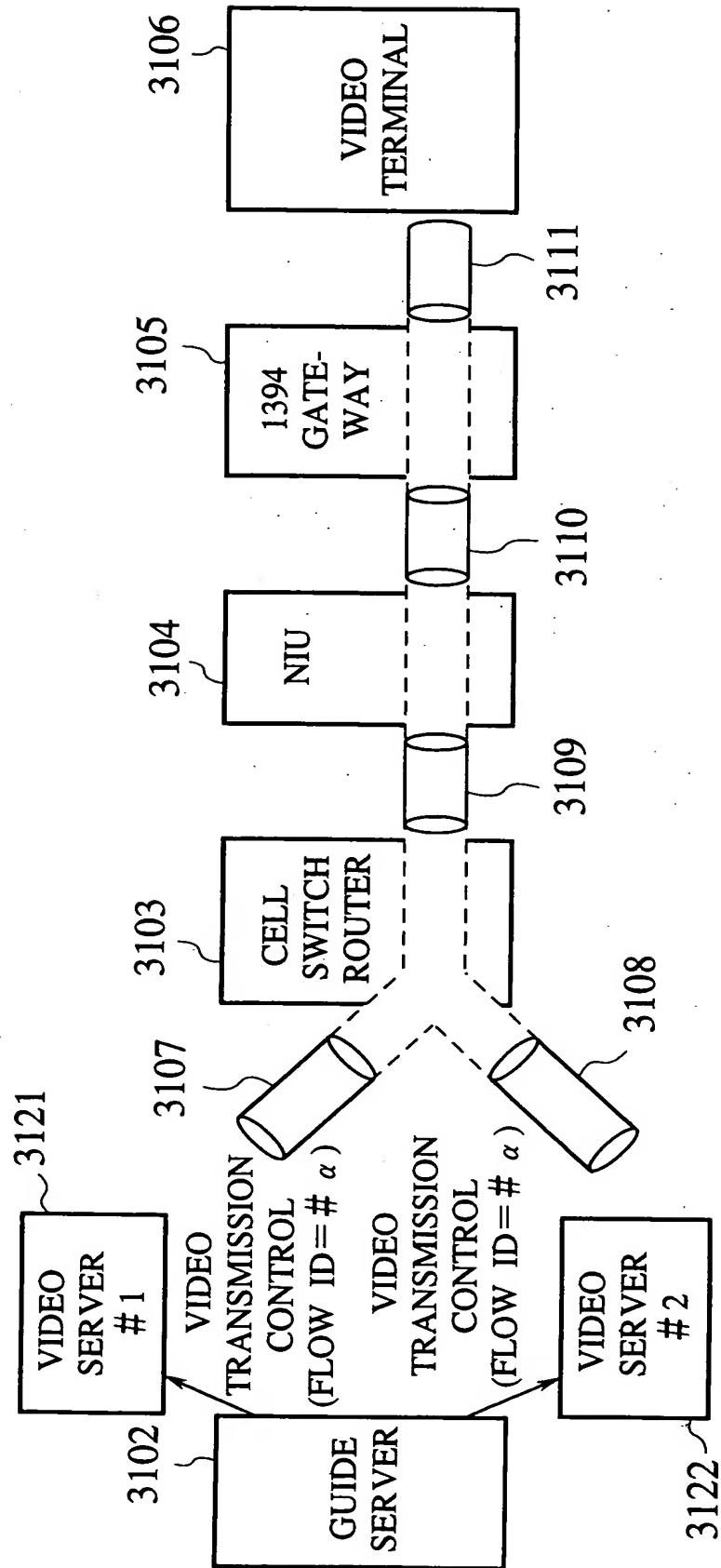


FIG.32

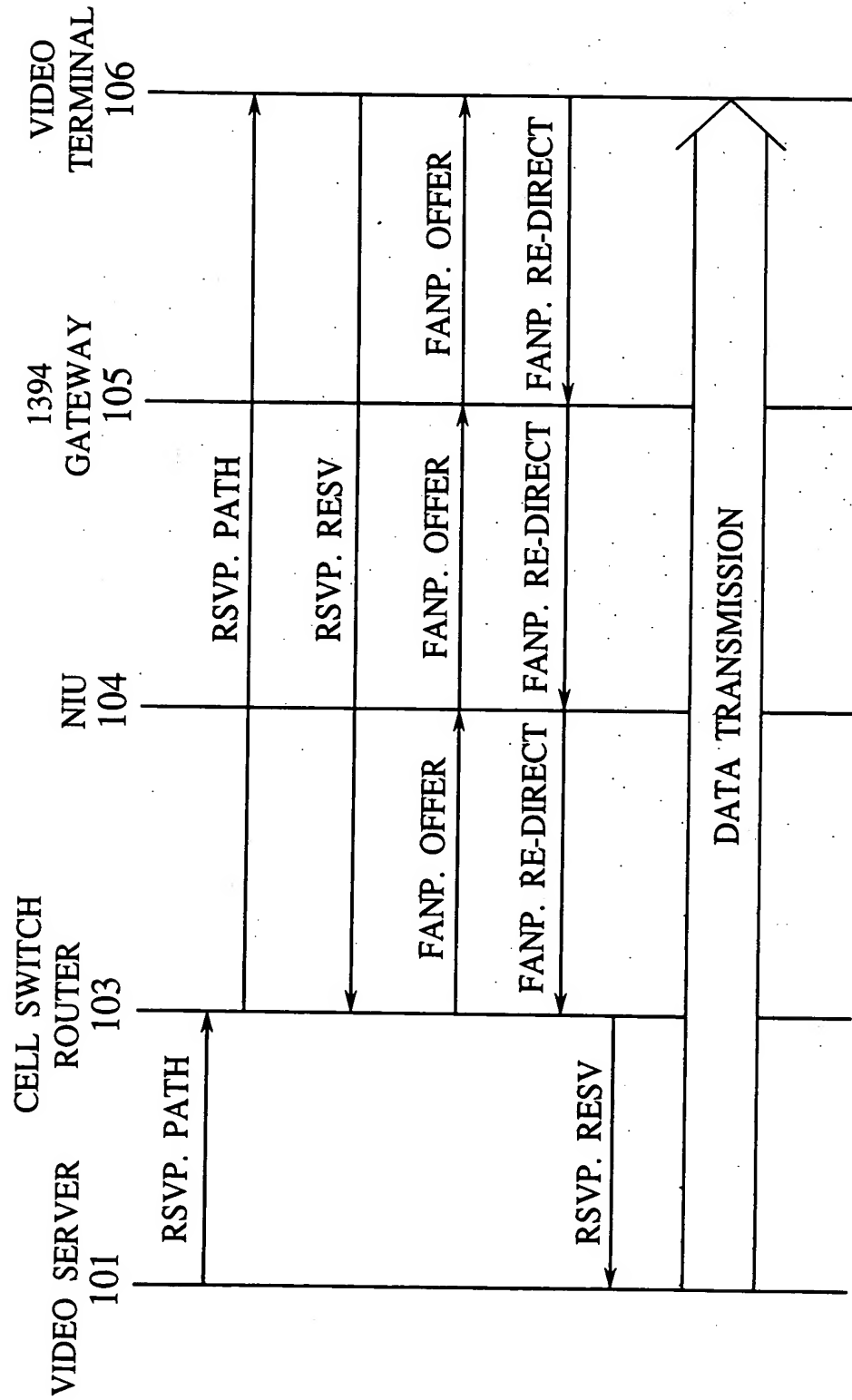


FIG.33

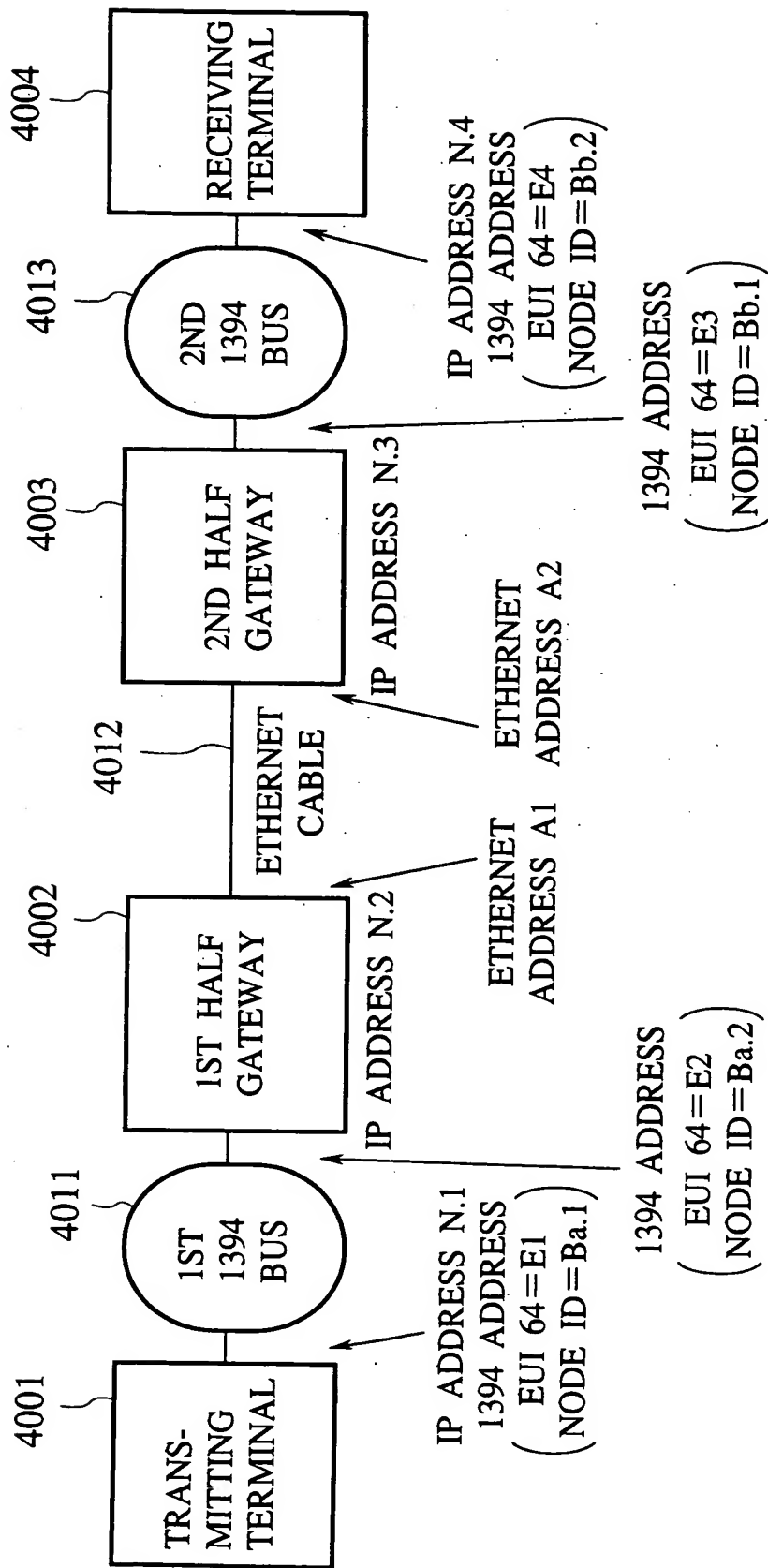


FIG.34

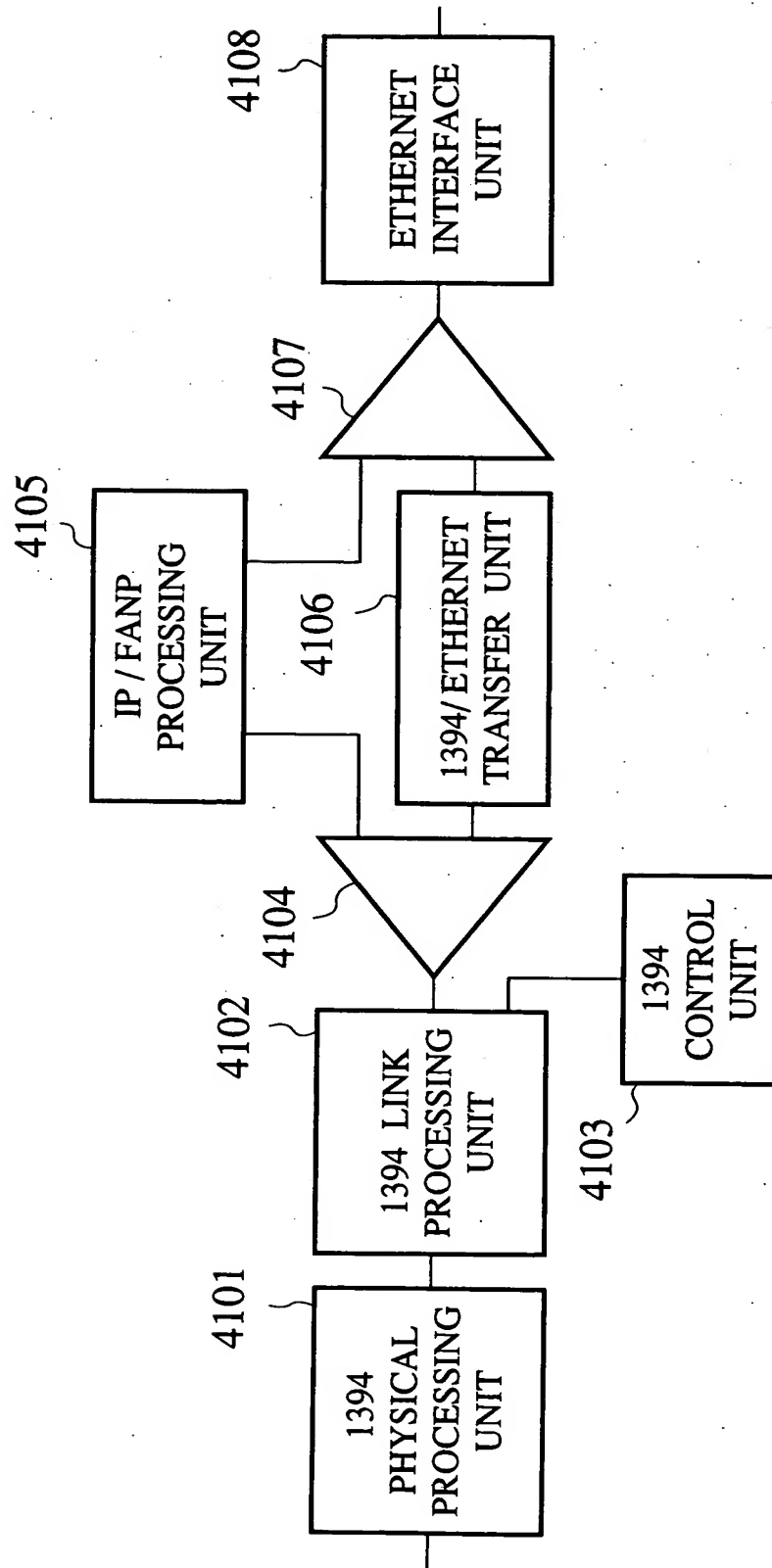


FIG.35

INPUT CHANNEL NO. OR DESTINATION ADDRESS WITH SPECIFIC REGISTER OFFSET	ATTRIBUTE	OUTPUT PORT	OUTPUT MAC ADDRESS
# 1	MPEG, 4M	B	# A
# 4	AUDIO, 1M	B	# B

FIG.36

INPUT MAC ADDRESS	ATTRIBUTE	OUTPUT PORT	OUTPUT CHANNEL NO. OR DESTINATION ADDRESS WITH SPECIFIC REGISTER OFFSET
# A	MPEG, 4M	B	# 1
# B	AUDIO, 1M	B	# 3

FIG.37

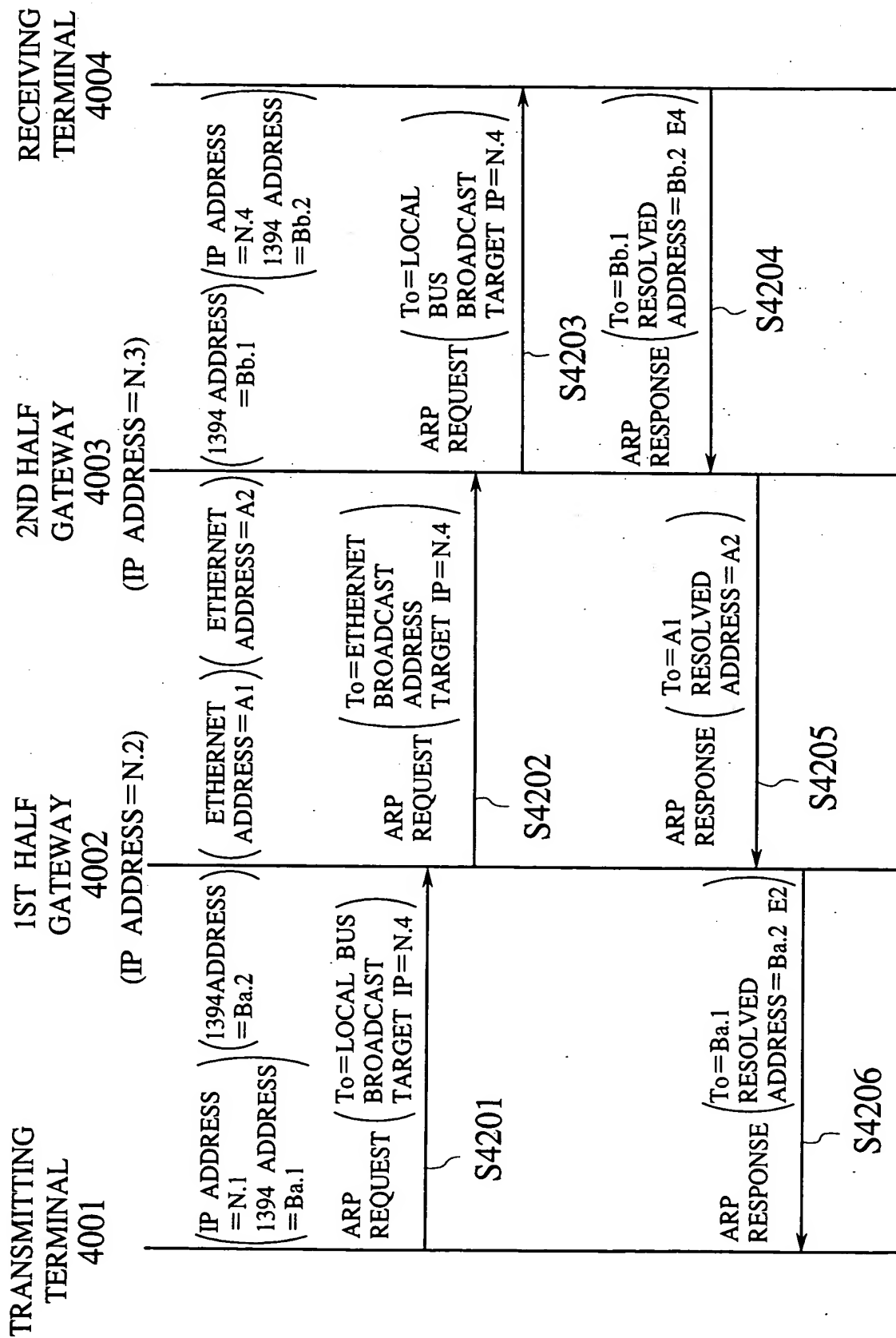
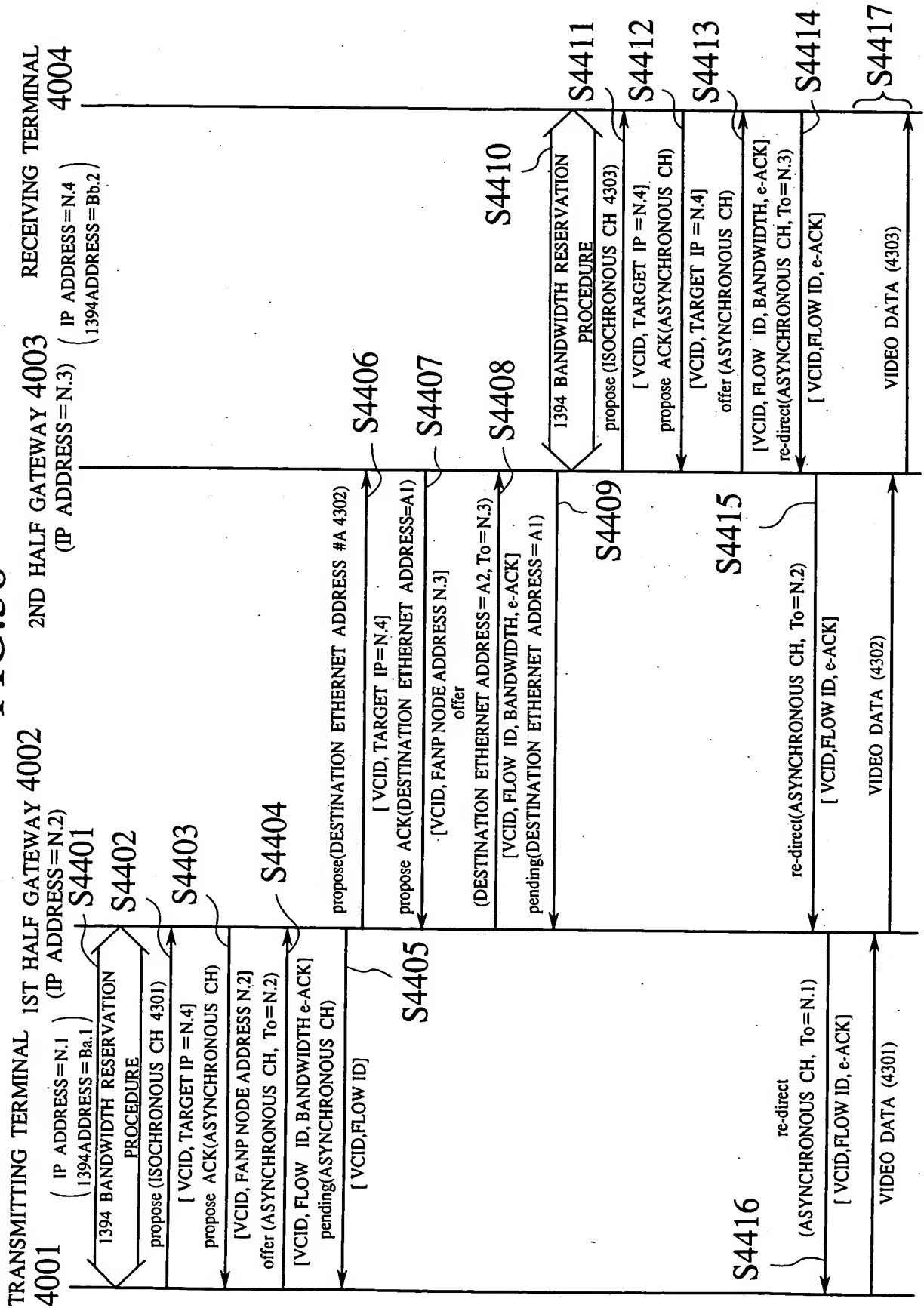


FIG.38



[VCID, FLOW ID]

FIG.39

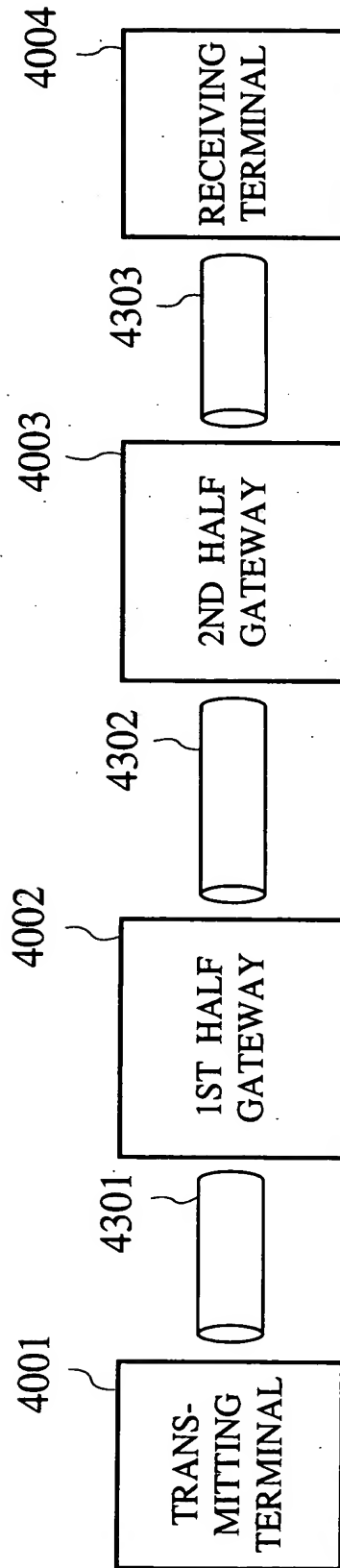


FIG.40

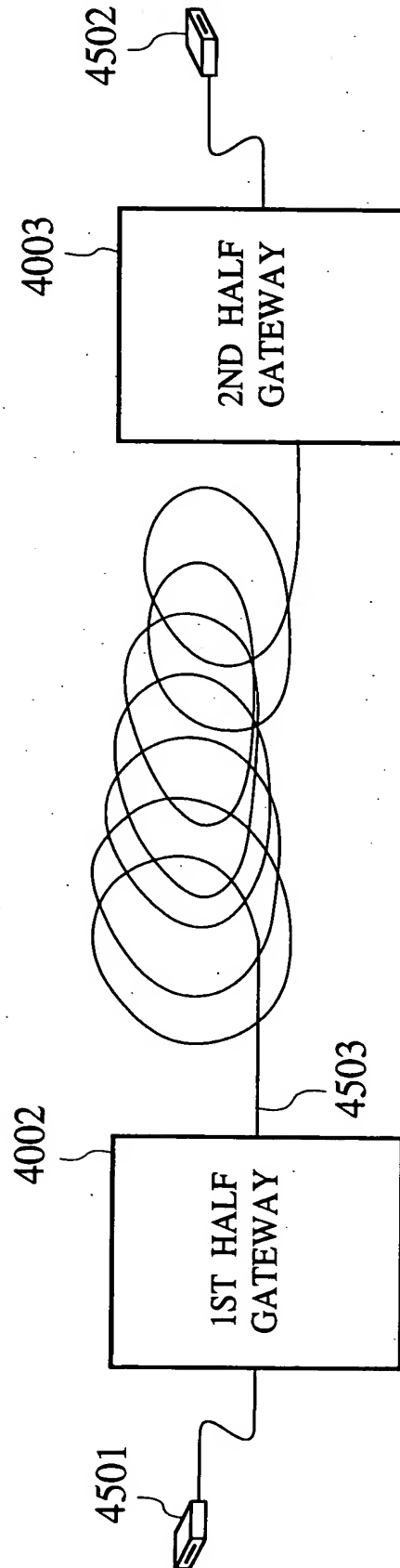


FIG.41

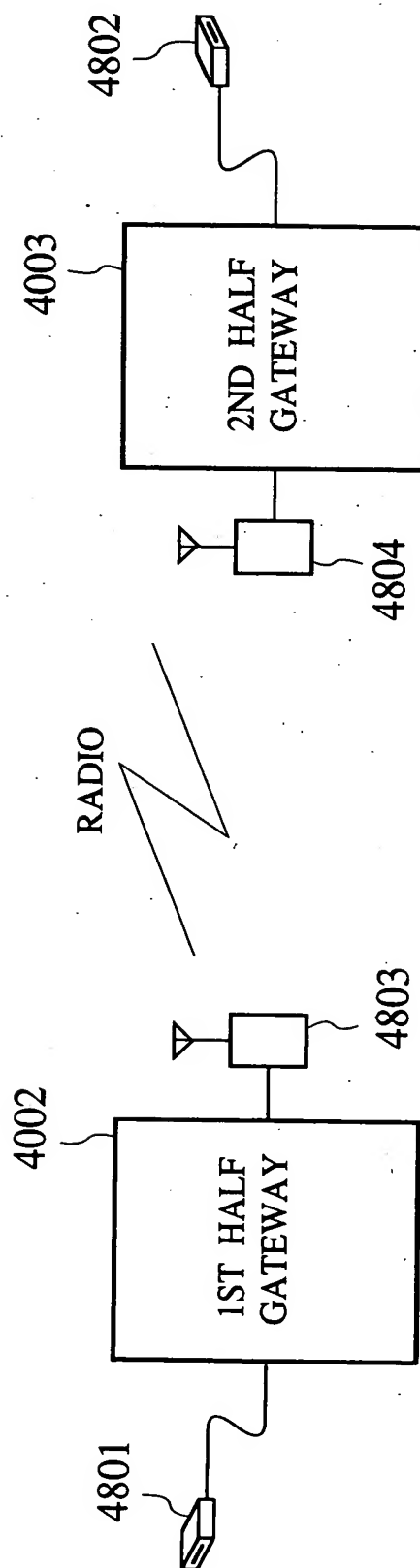


FIG.42

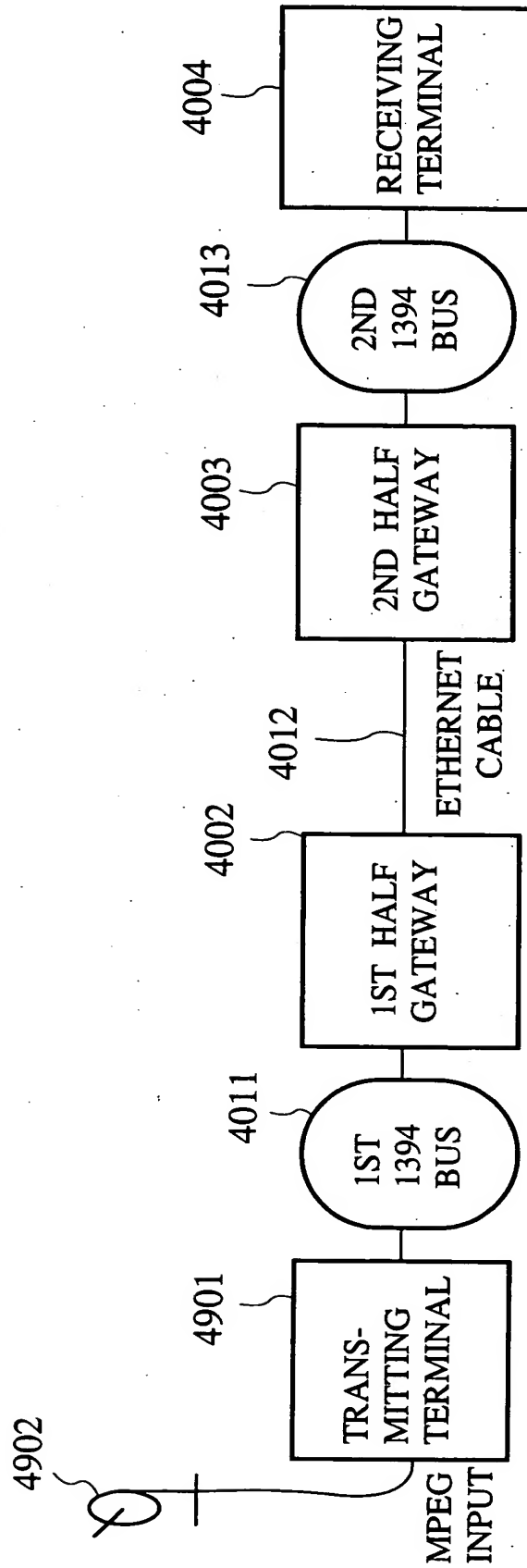


FIG.43

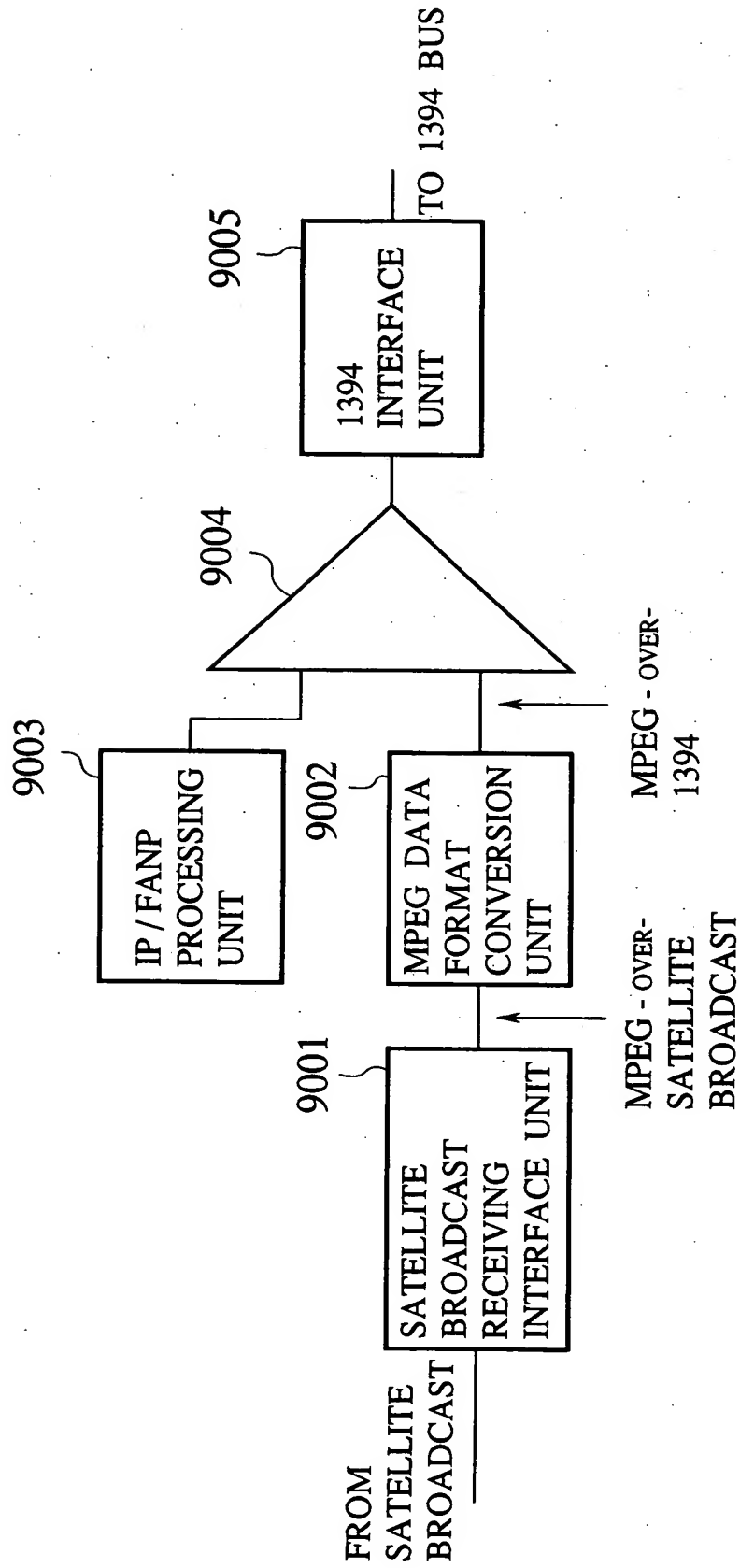


FIG.44

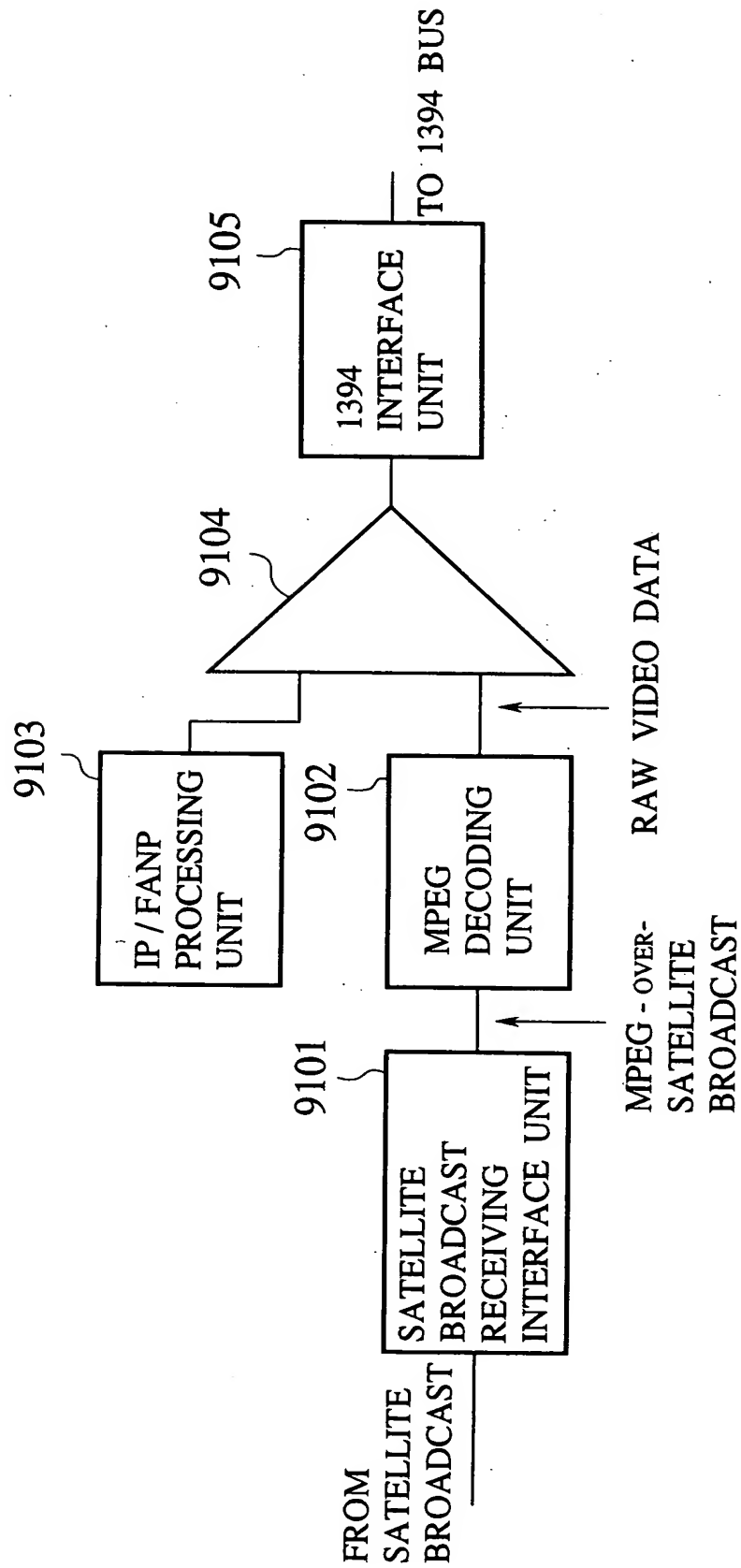


FIG.45

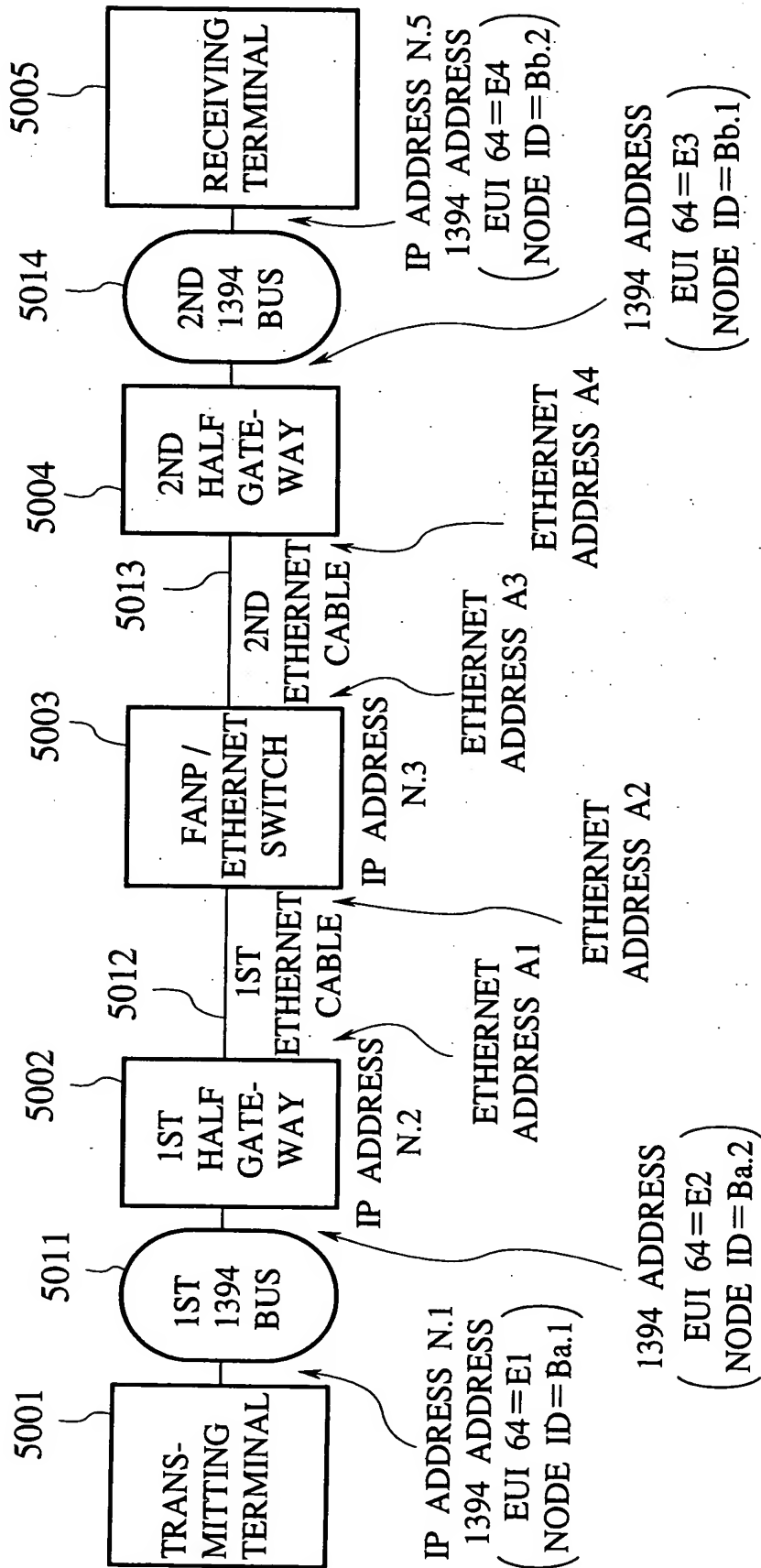


FIG.46

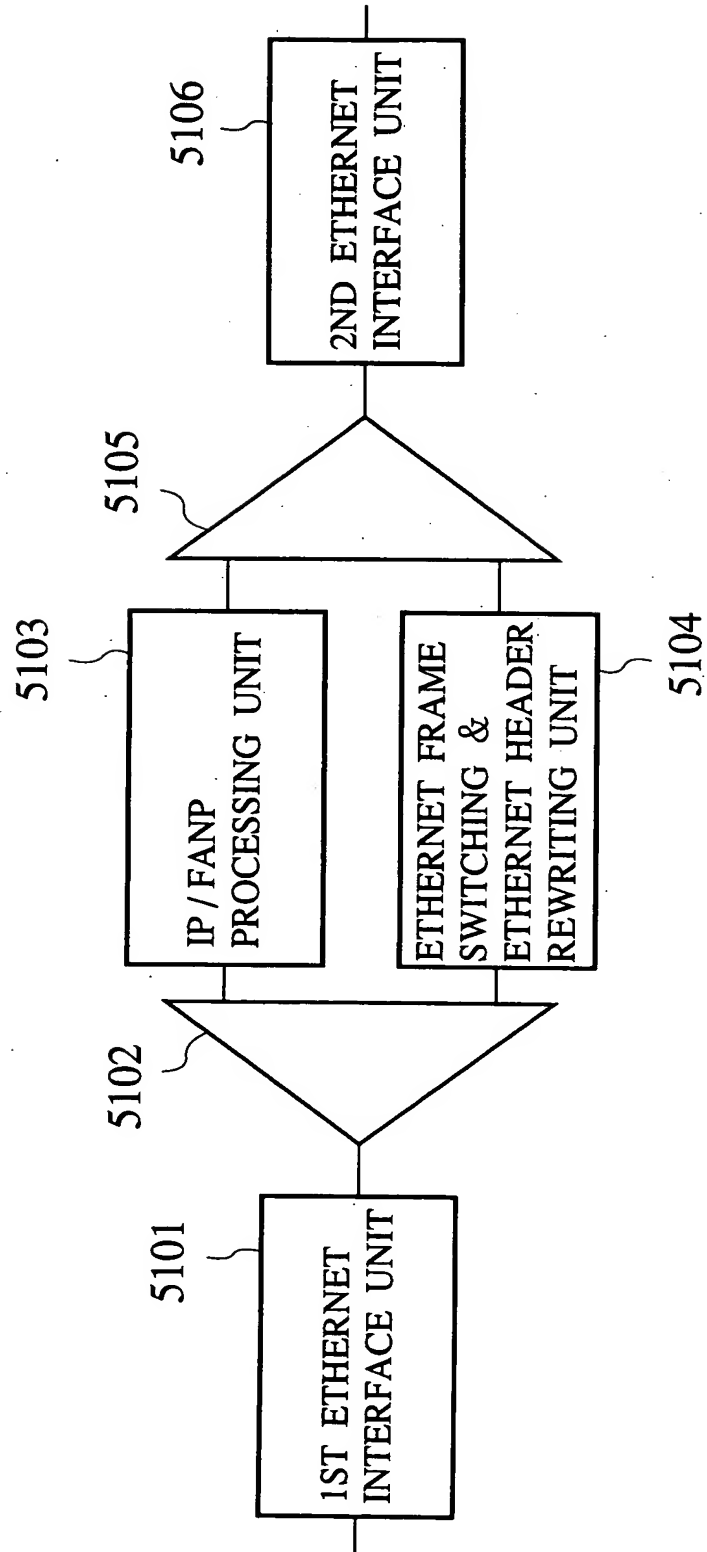
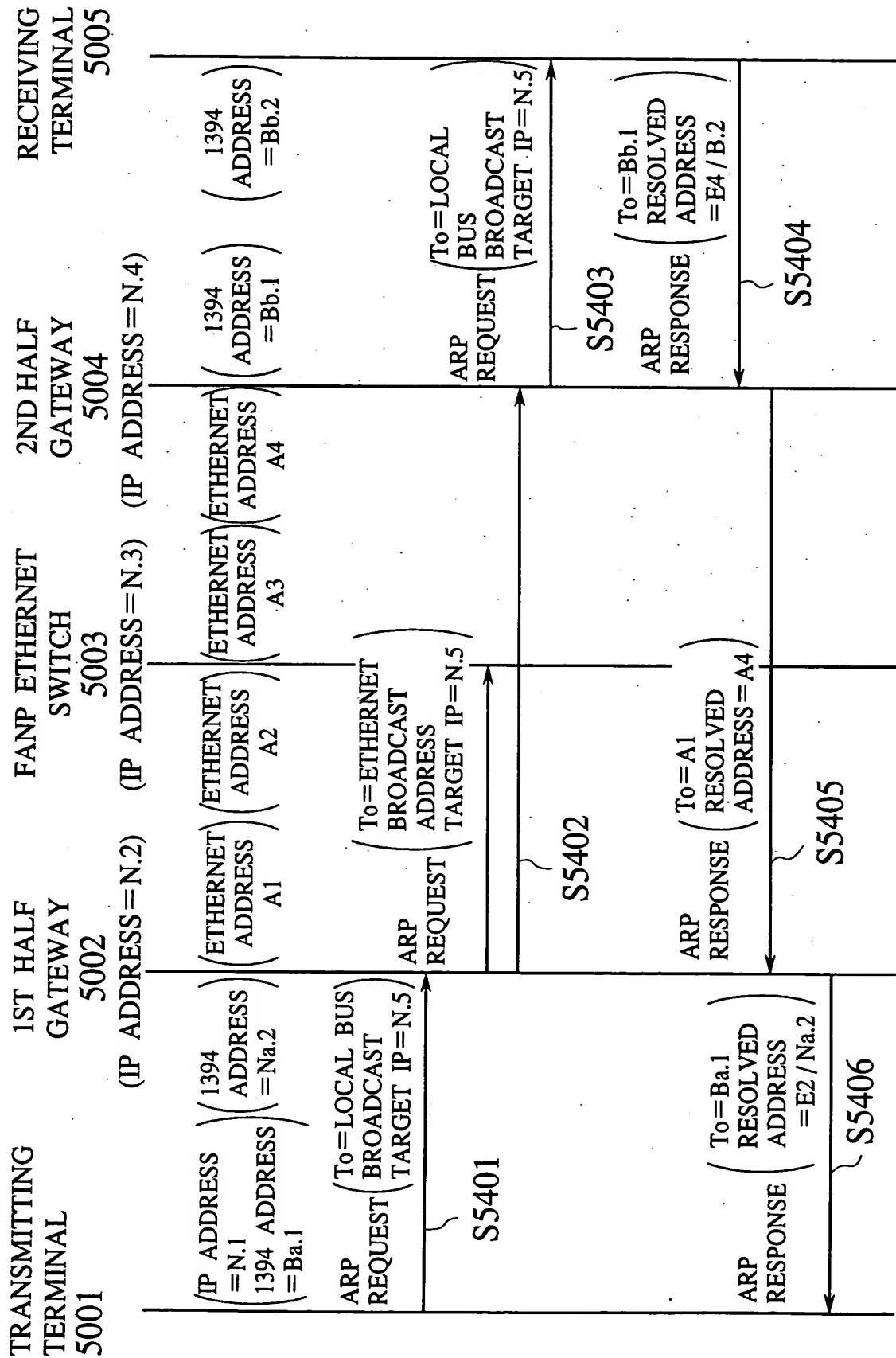


FIG.47



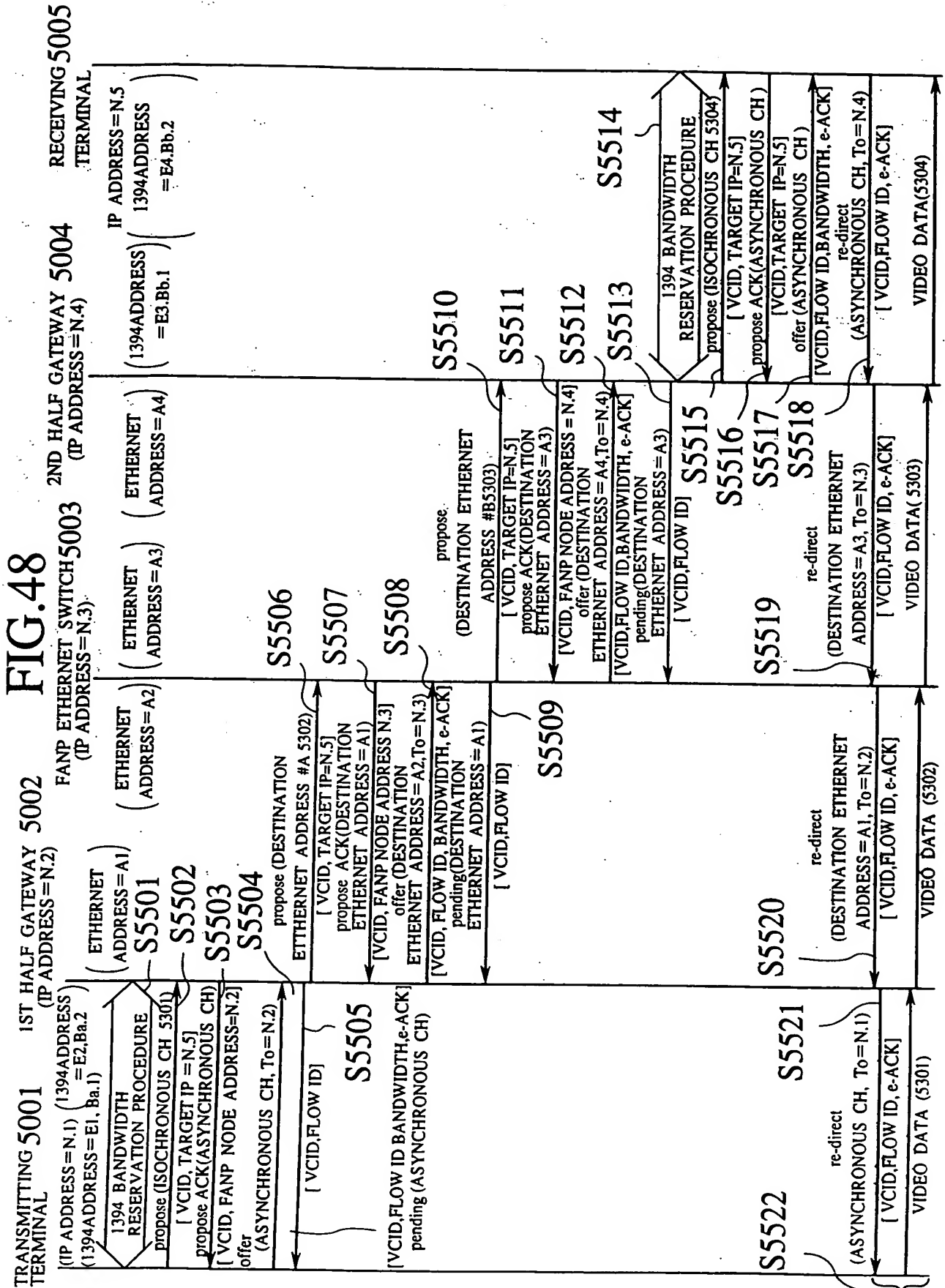


FIG.49

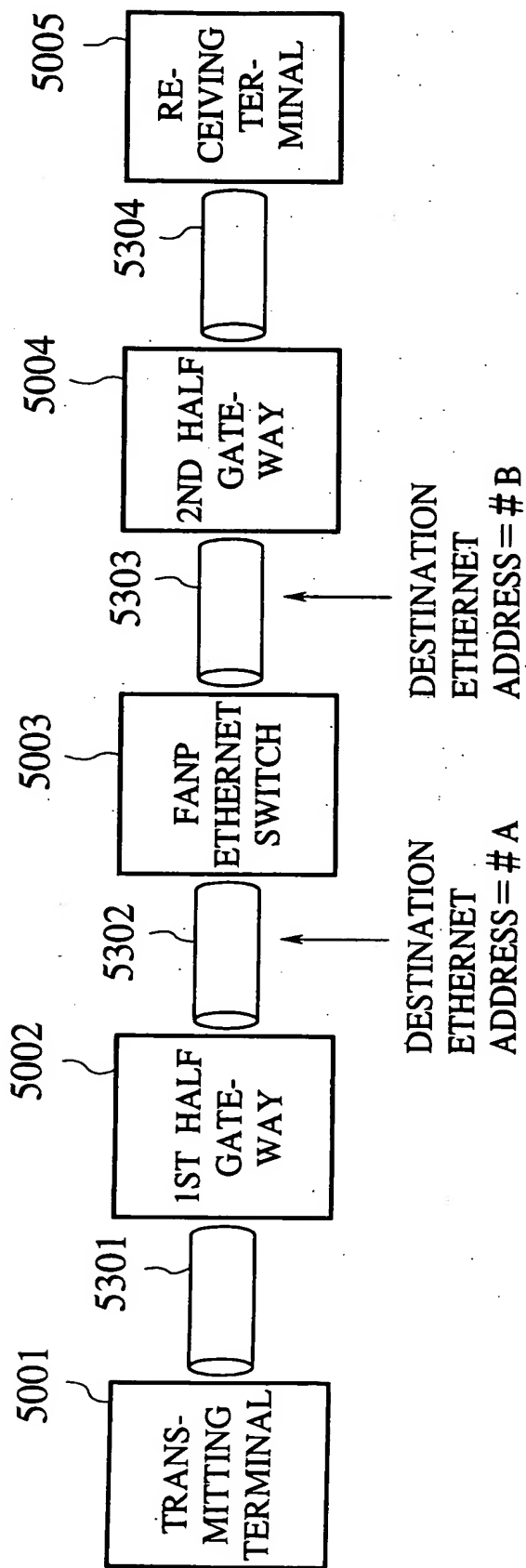


FIG. 50

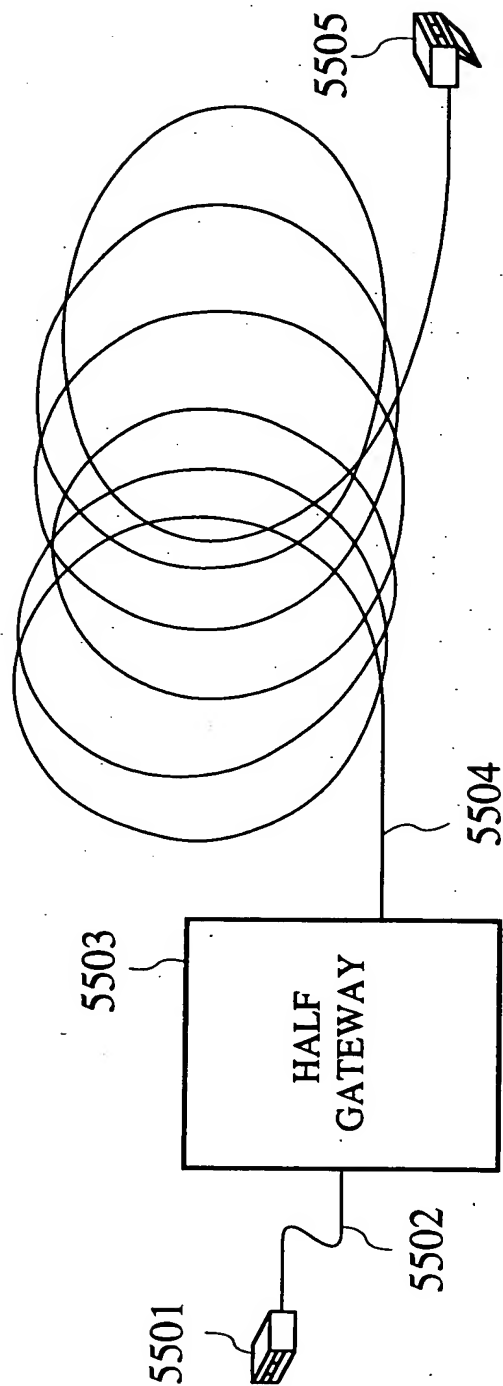


FIG.51

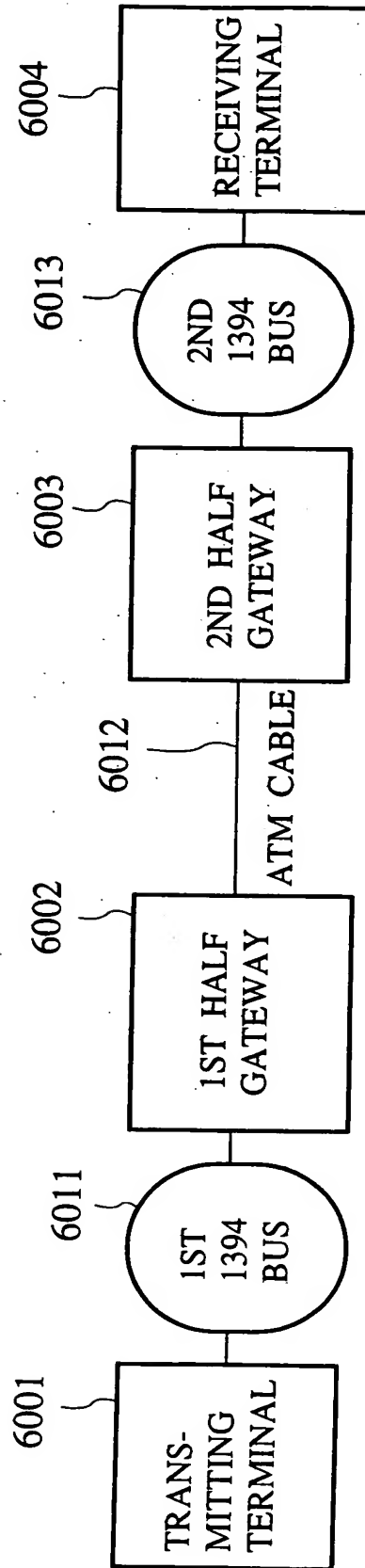


FIG.52

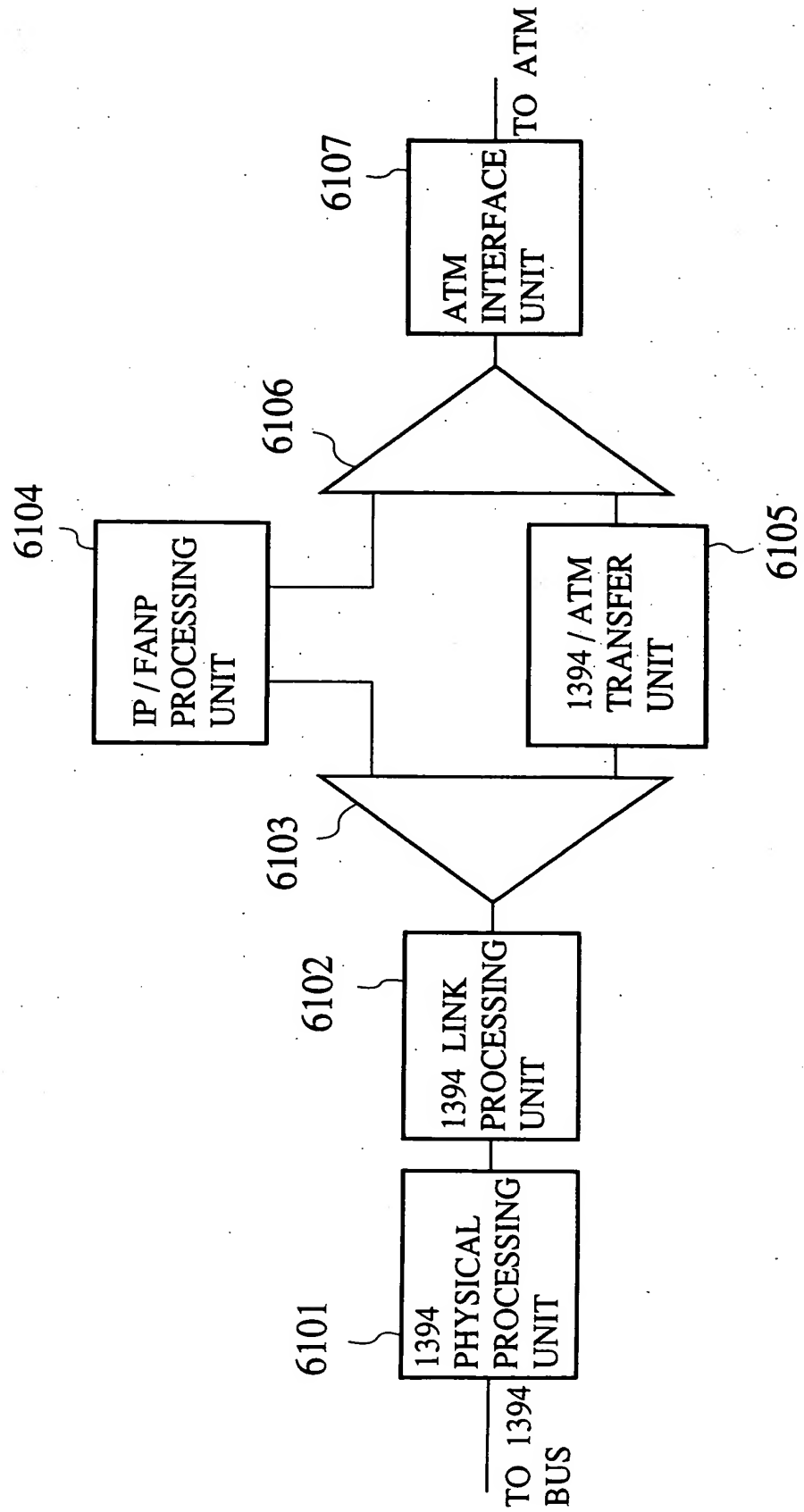


FIG.53

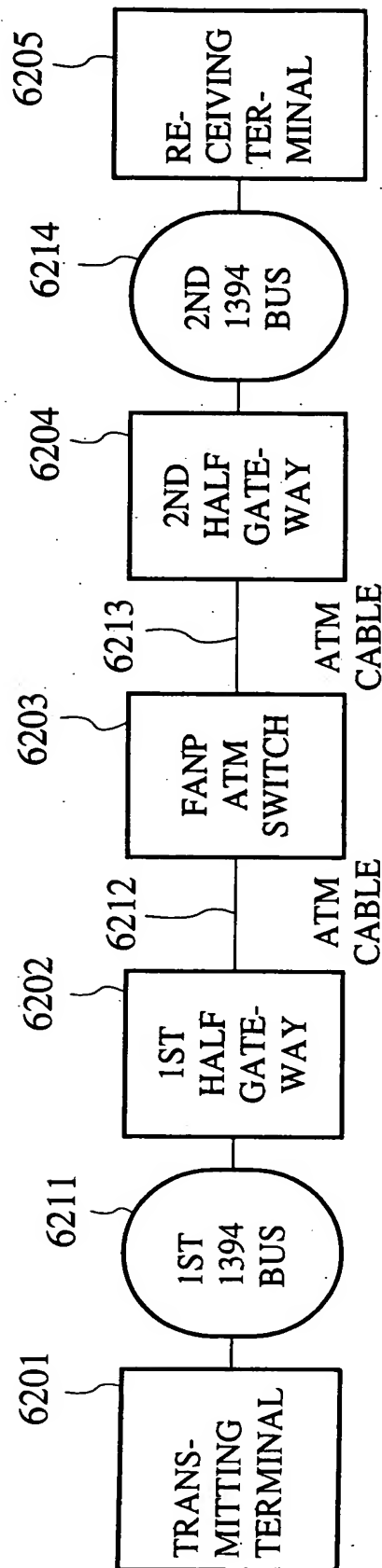


FIG.54

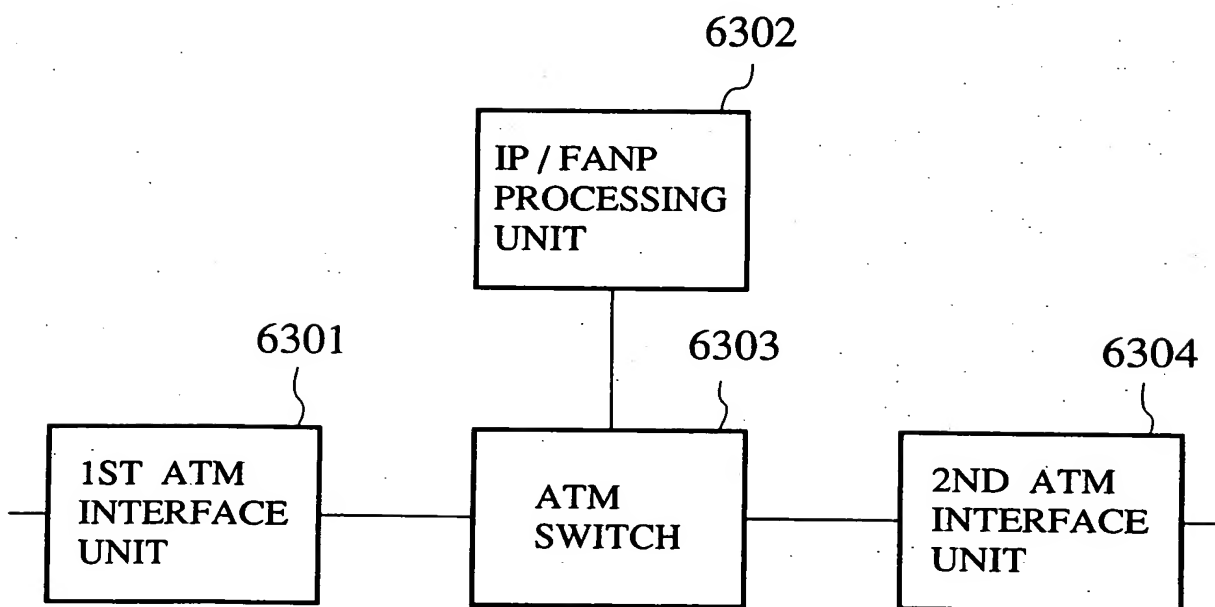


FIG.55

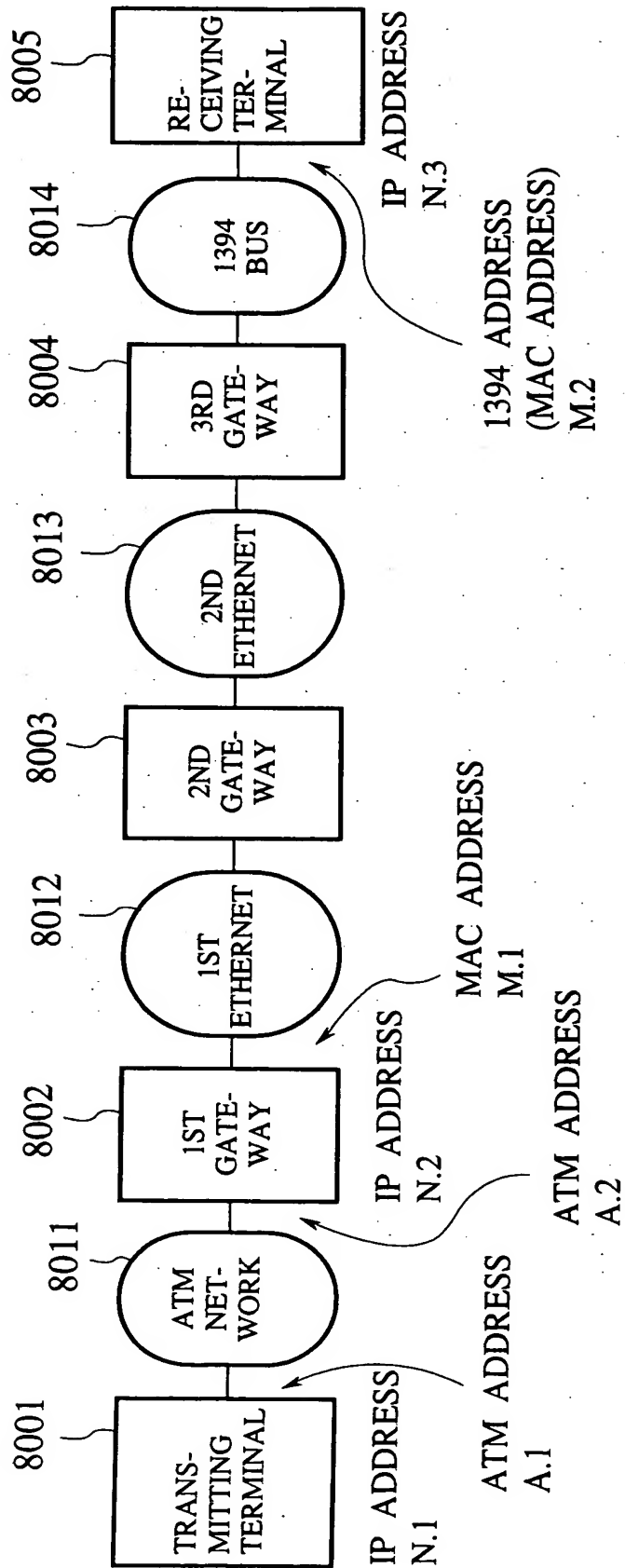


FIG. 56

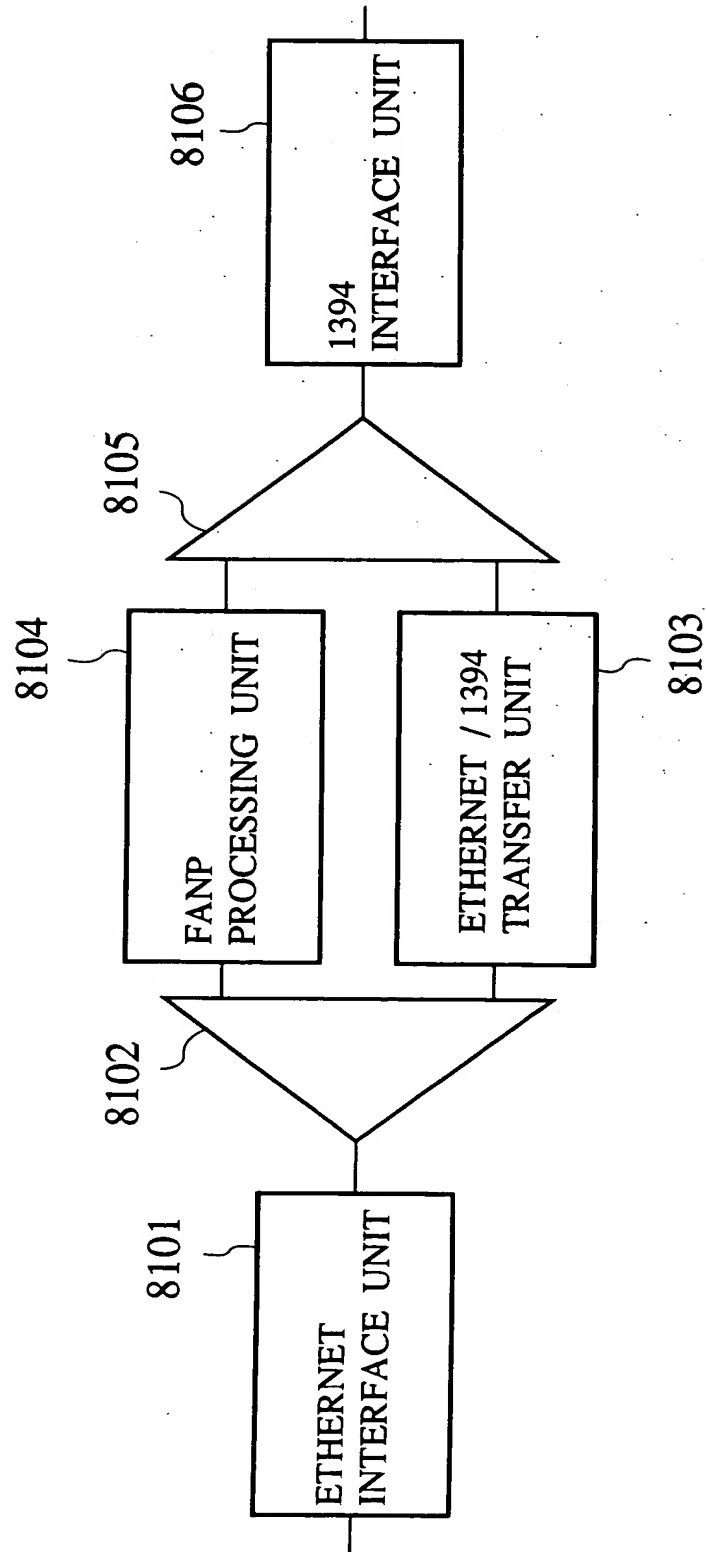


FIG. 58

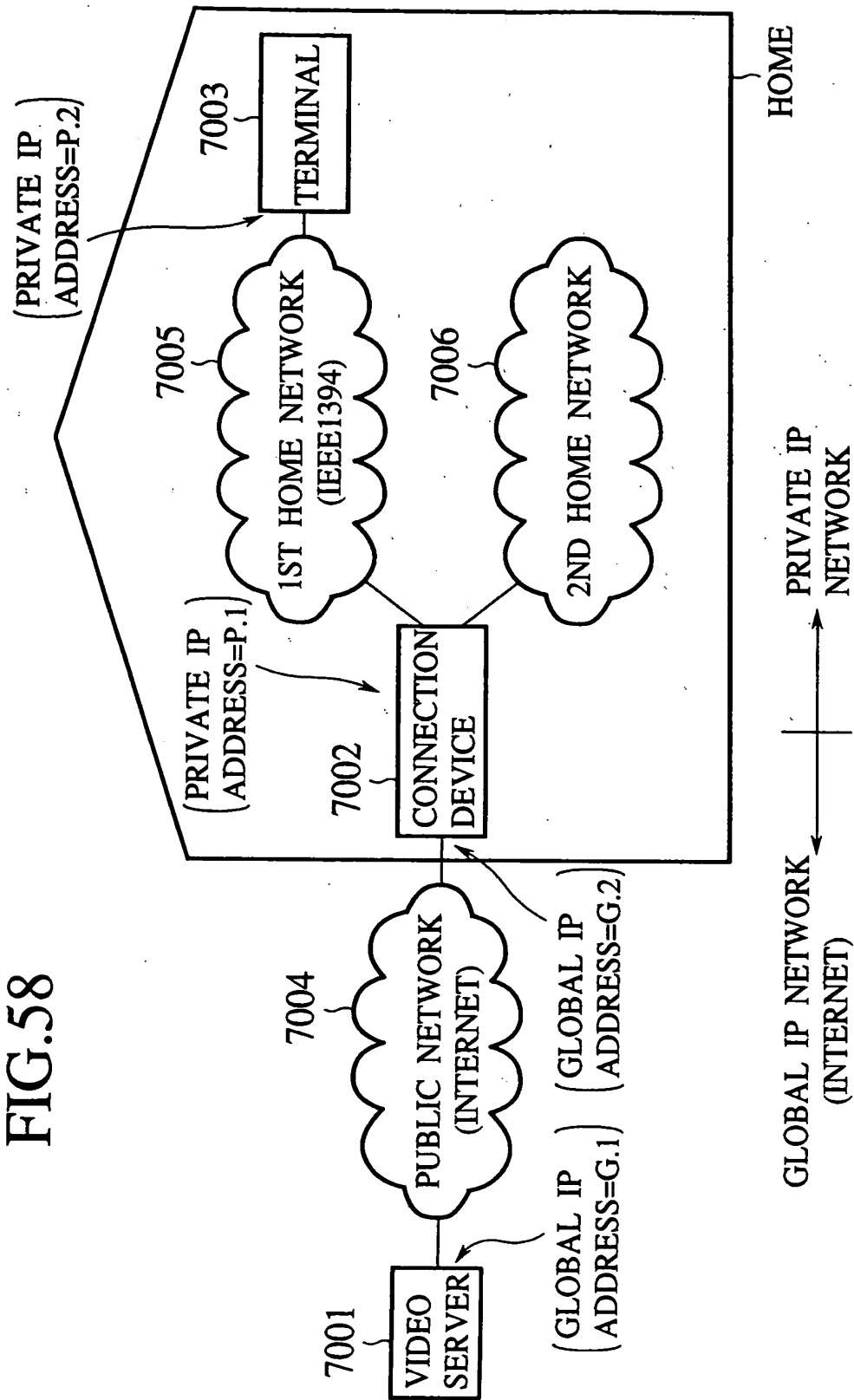


FIG.59

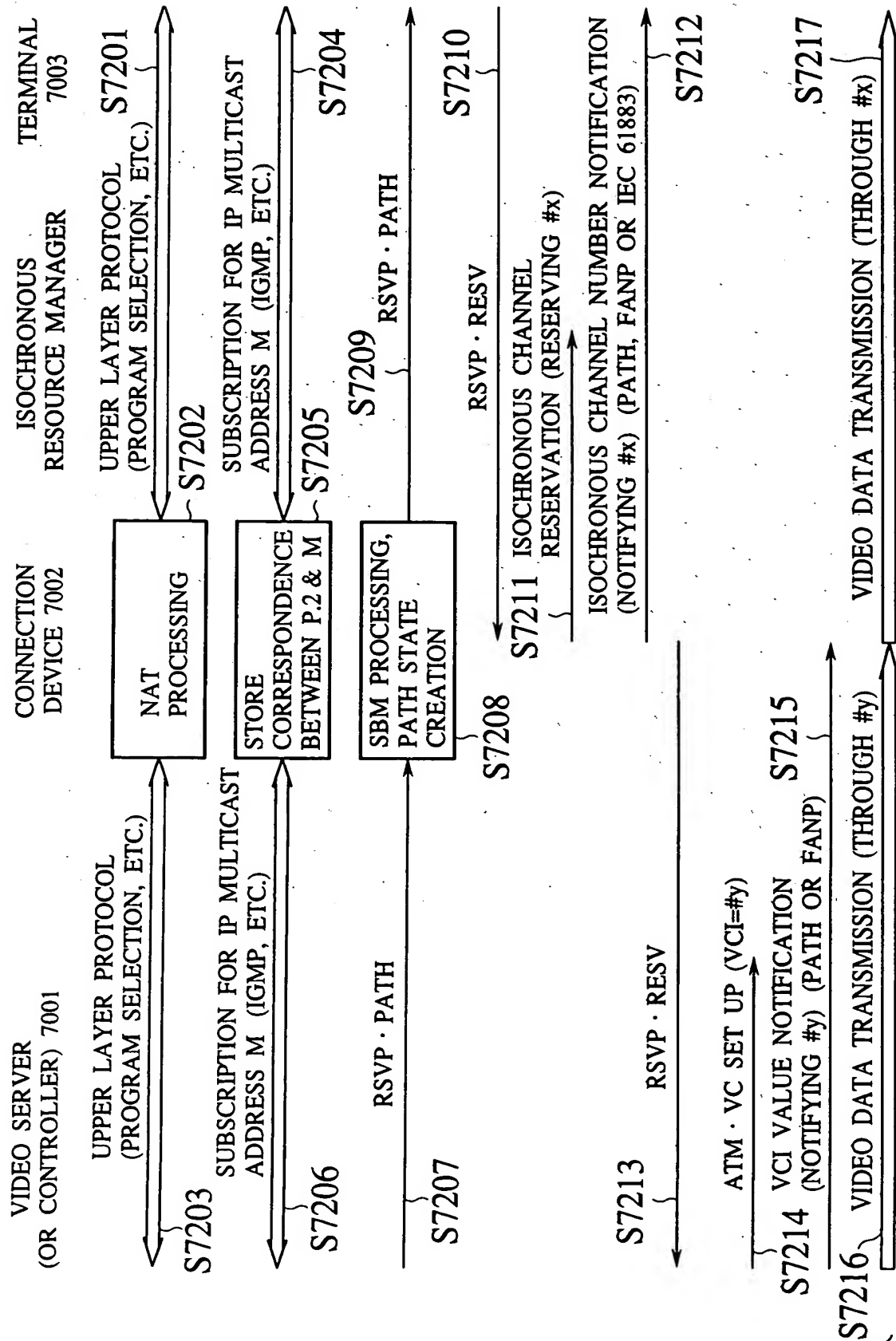


FIG.60

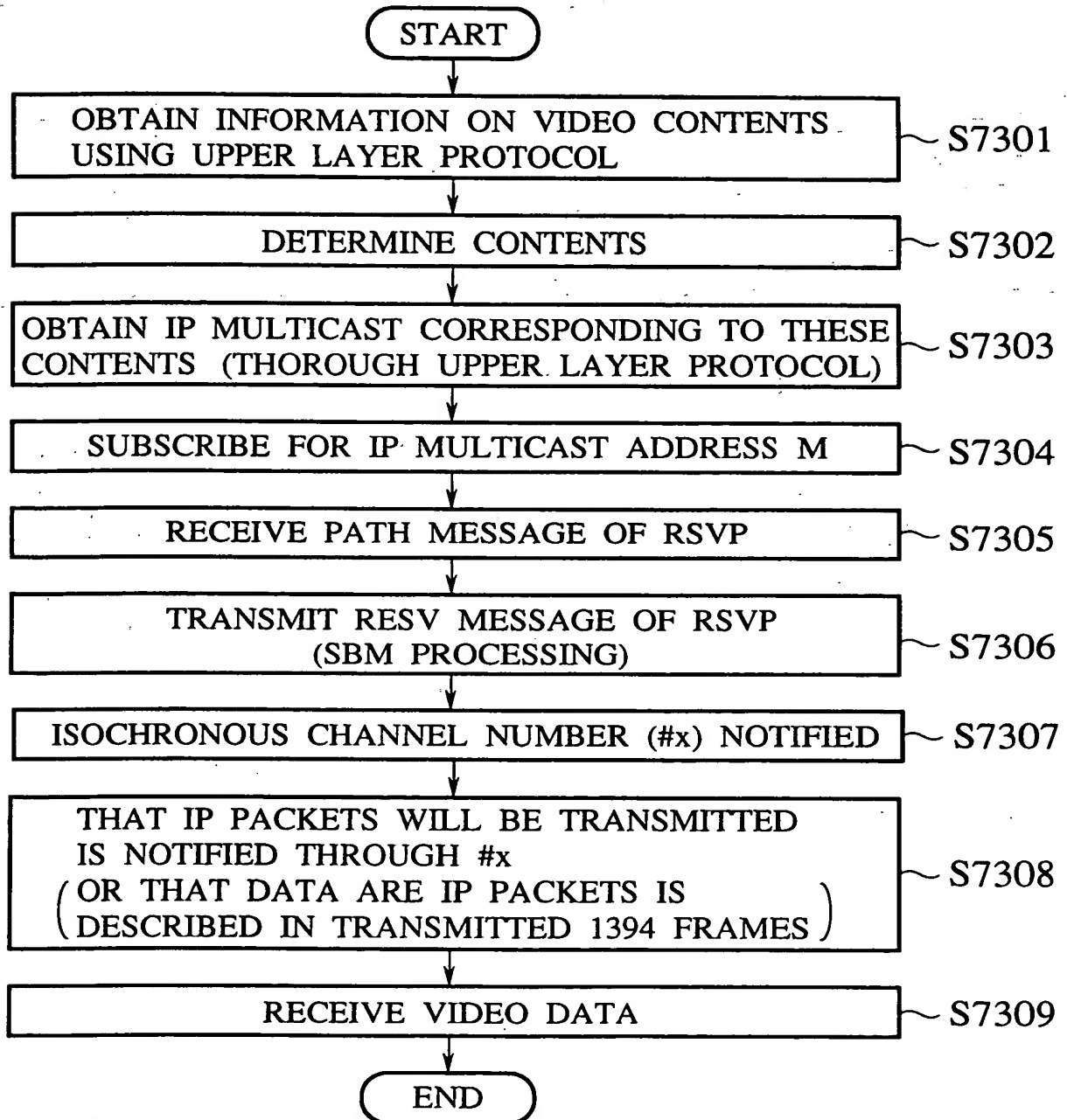


FIG.61

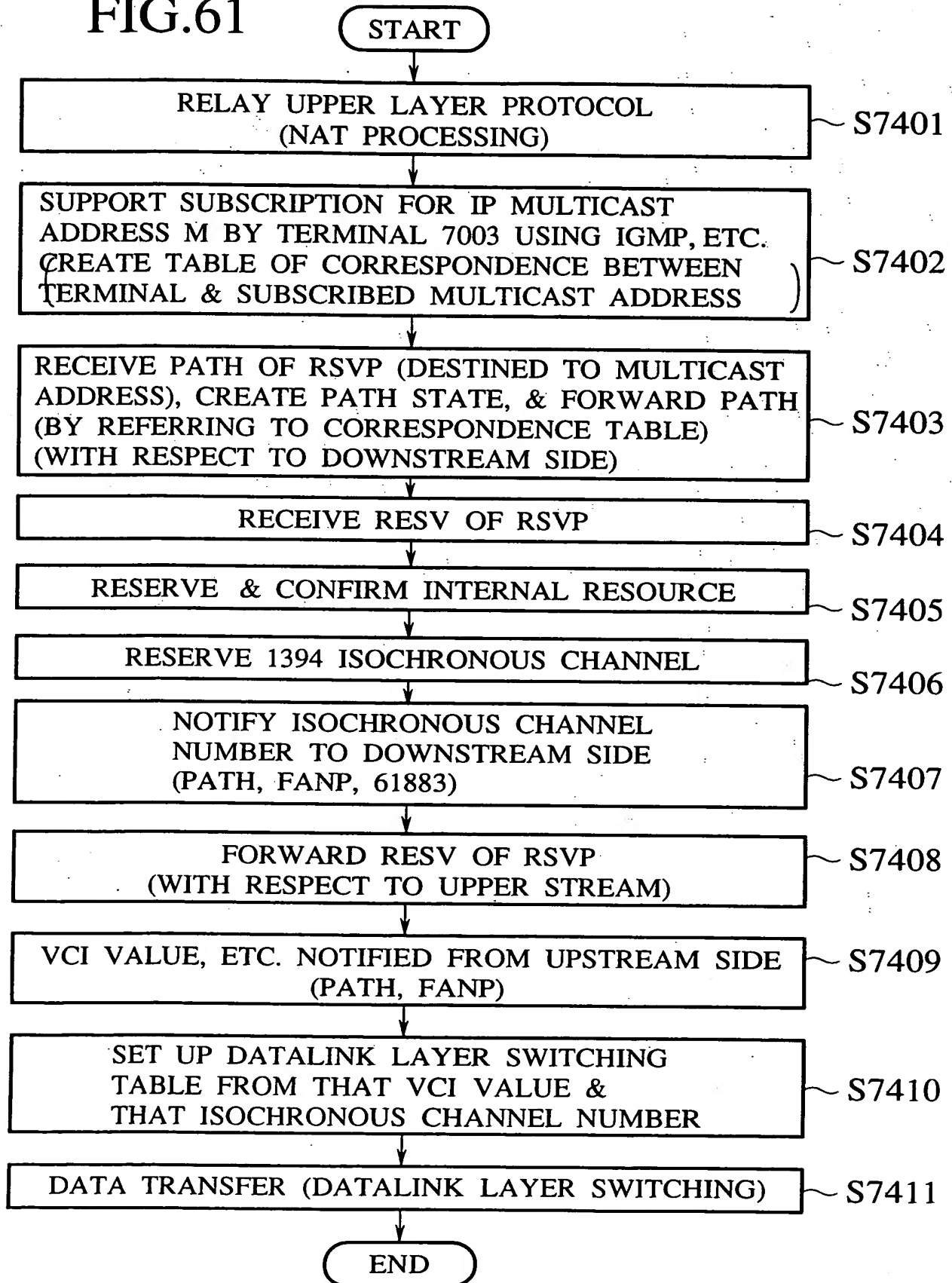


FIG.62

SUBSCRIBED MULTICAST ADDRESS	I/F OF TERMINAL	PRIVATE ADDRESS OF TERMINAL
M	1 (1ST HOME NETWORK)	P.2
	2	P.5
	---	---
---	---	---

FIG.63

COMMON HEADER
SESSION INFORMATION
RSVP HOP INFORMATION
TIME VALUE
LOWER LAYER INFORMATION (DATALINK TYPE=IEEE 1394 ISOCHRONOUS CHANNEL NUMBER= #x)

FIG.64

NUMBER OF CONNECTIONS, ETC.	CHANNEL NUMBER	BANDWIDTH	ID, ETC.
-----------------------------------	----------------	-----------	----------

BASIC

CHANNEL NUMBER	UPPER LAYER INFORMATION (MPEG/IP/..., IP FLOW)	OTHERS
----------------	---	--------

EXTENDED

FIG.65

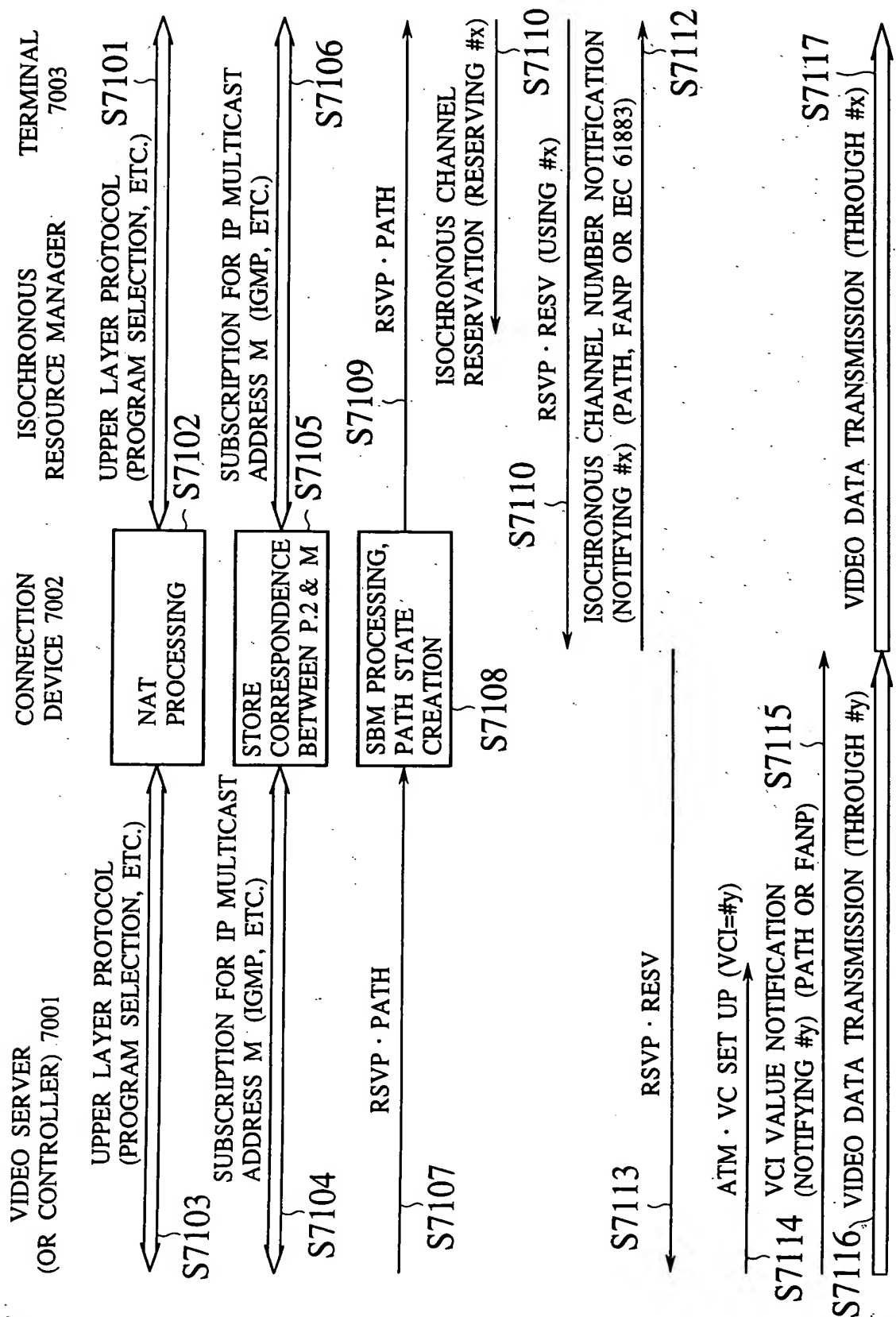


FIG.66

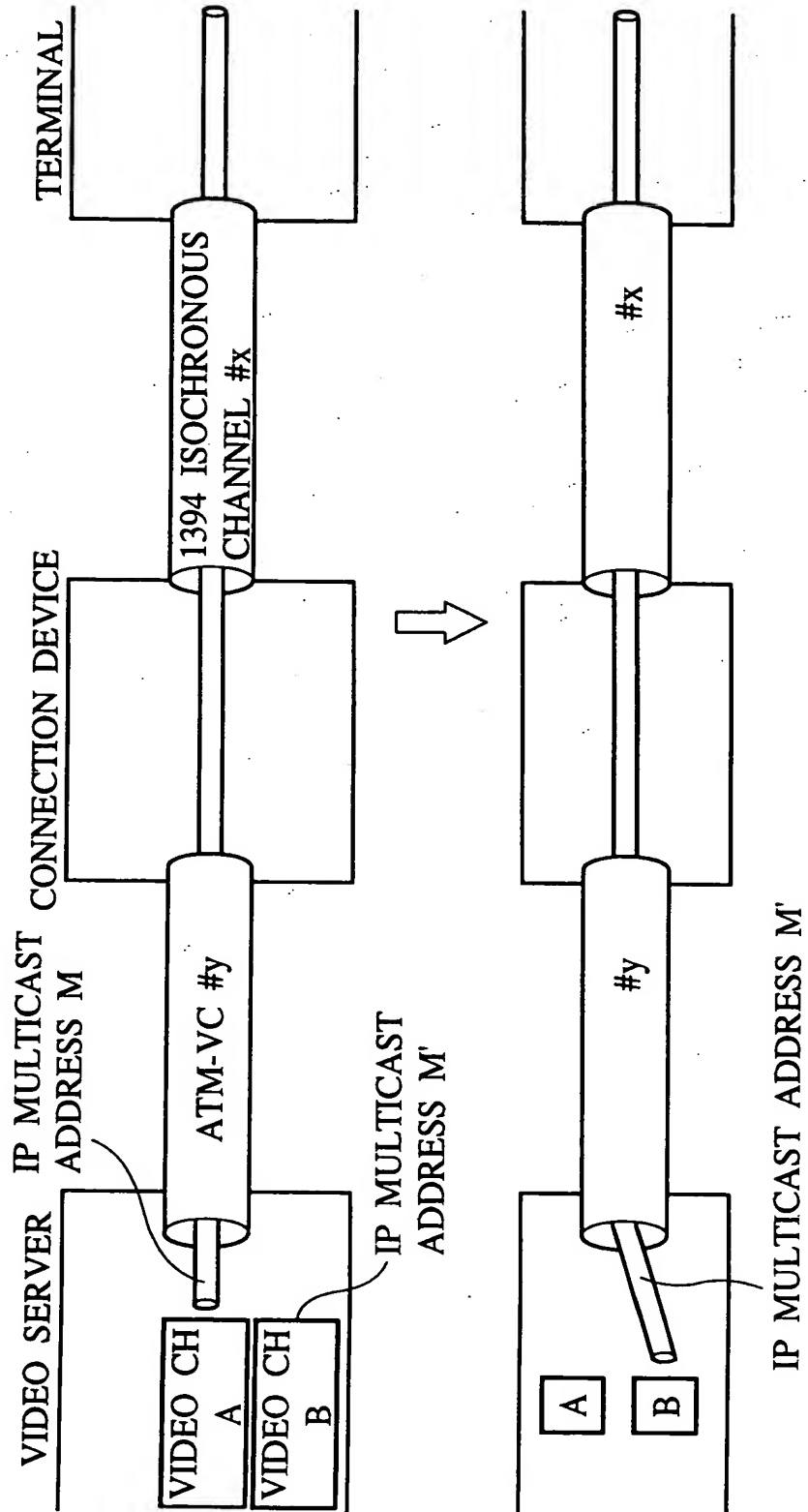


FIG.67

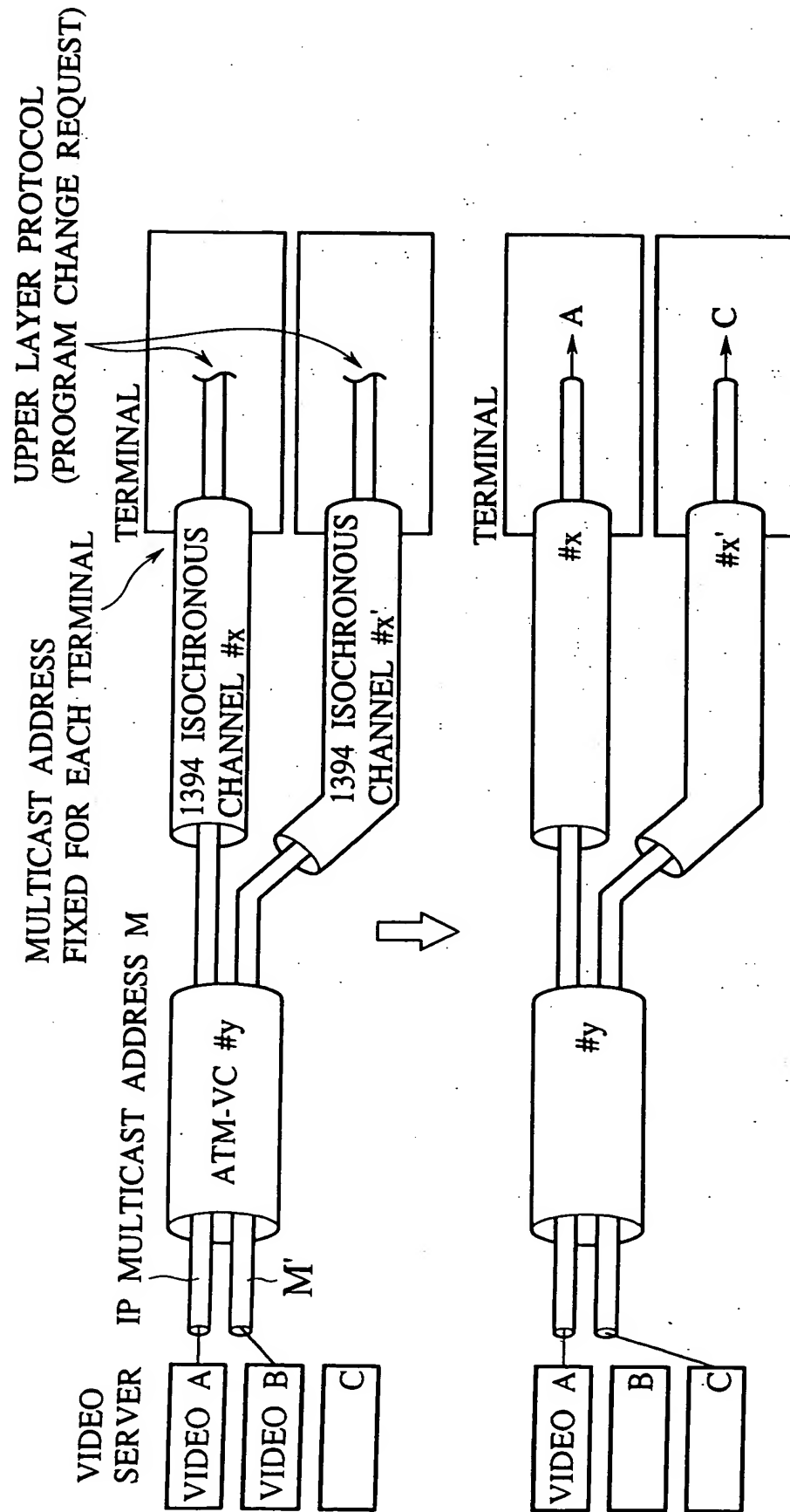
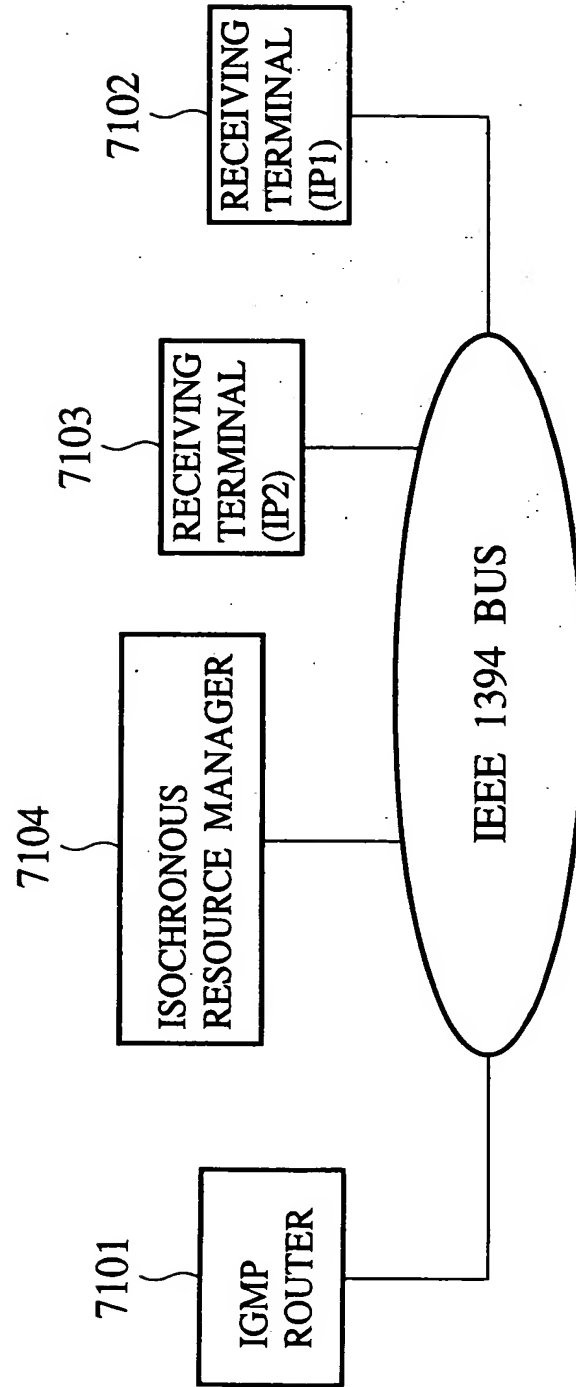


FIG.68



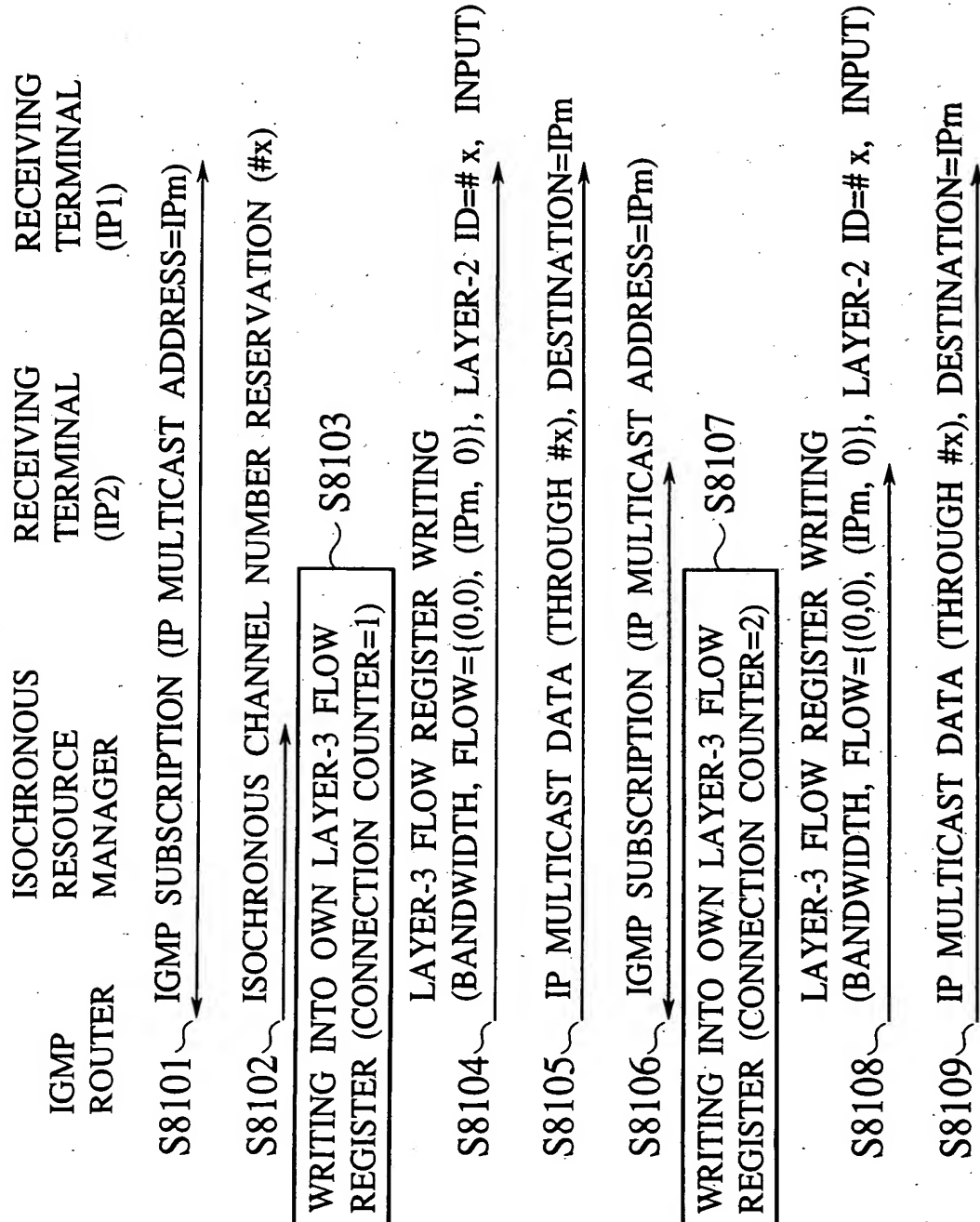


FIG.69

FIG.70

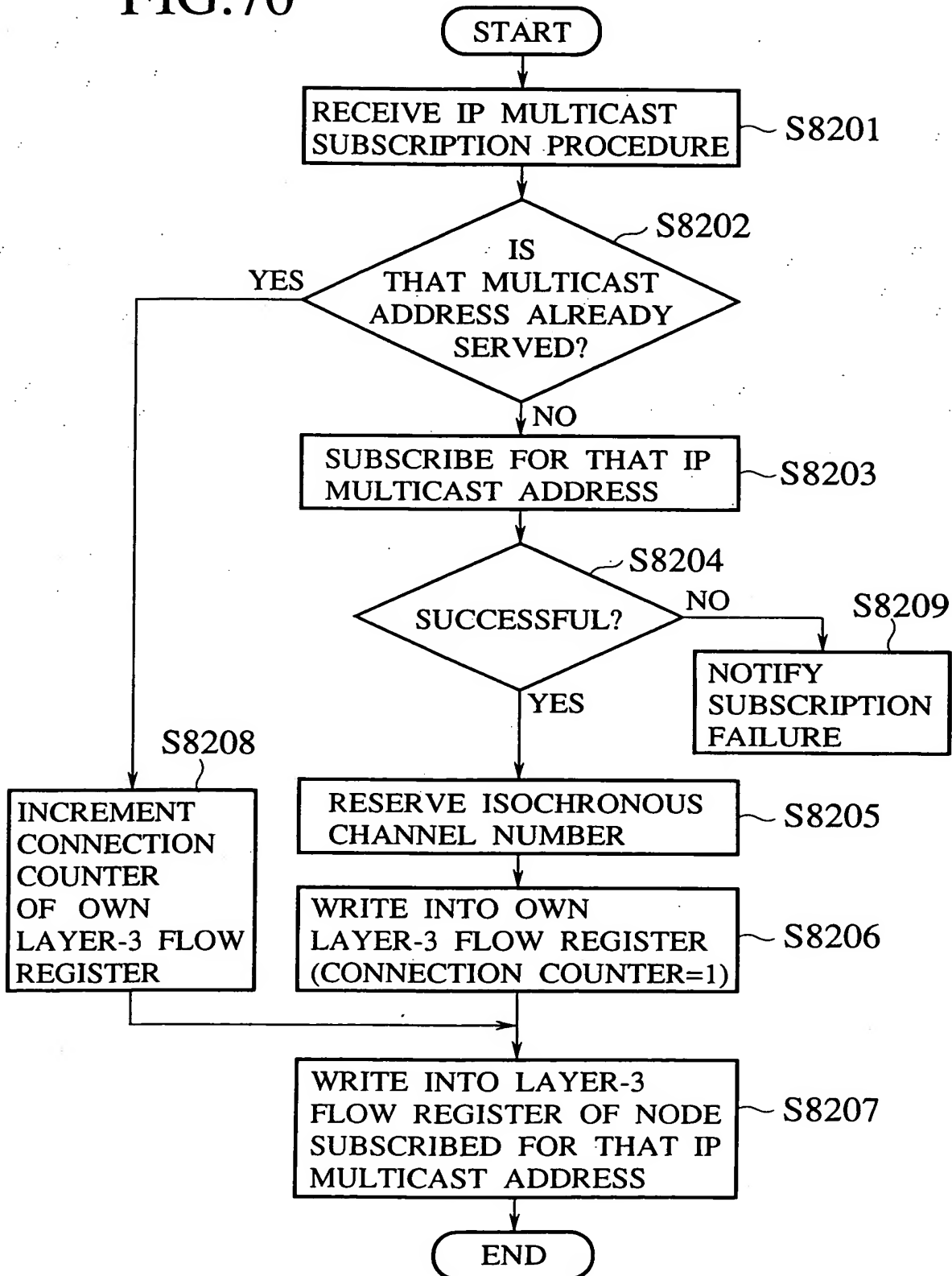


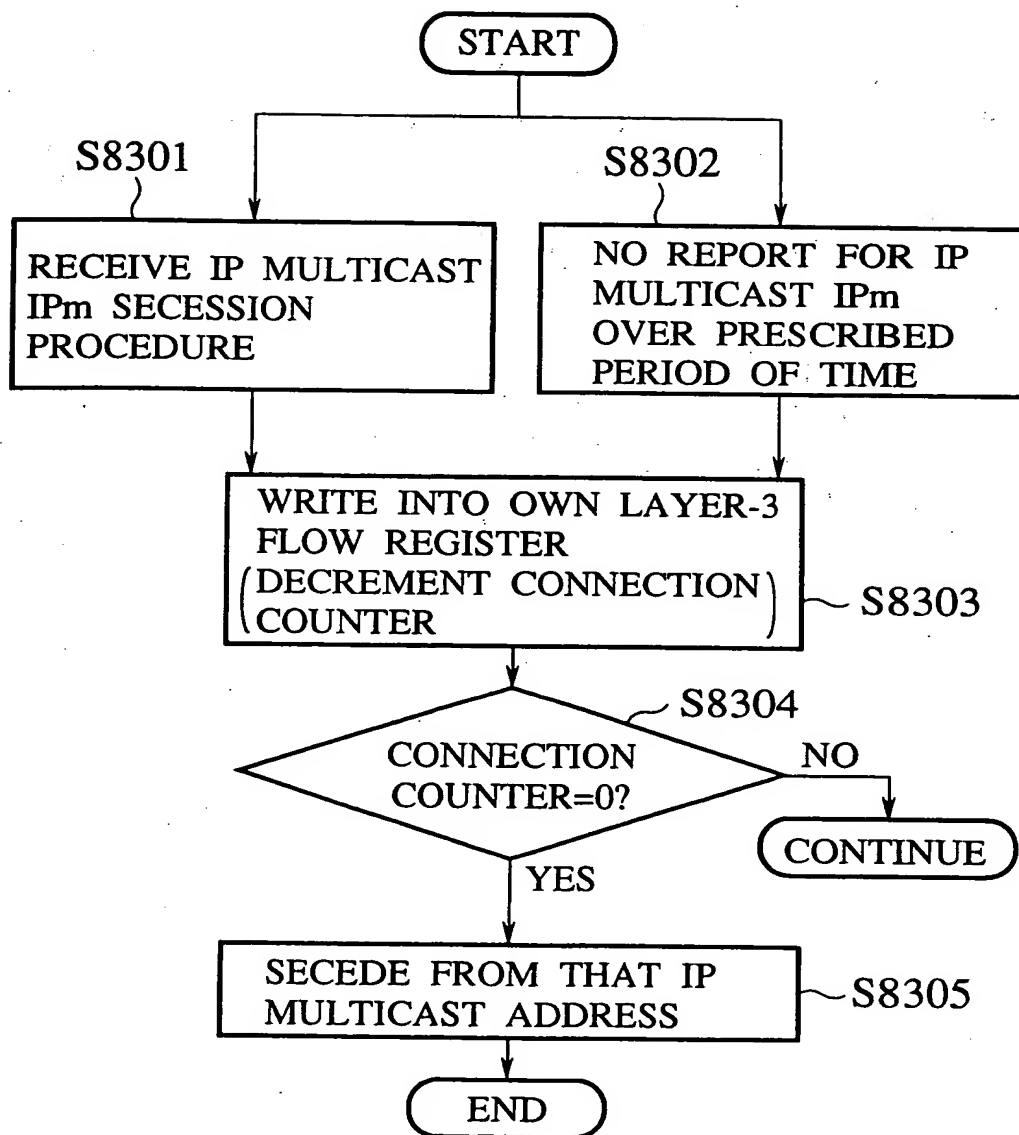
FIG.71

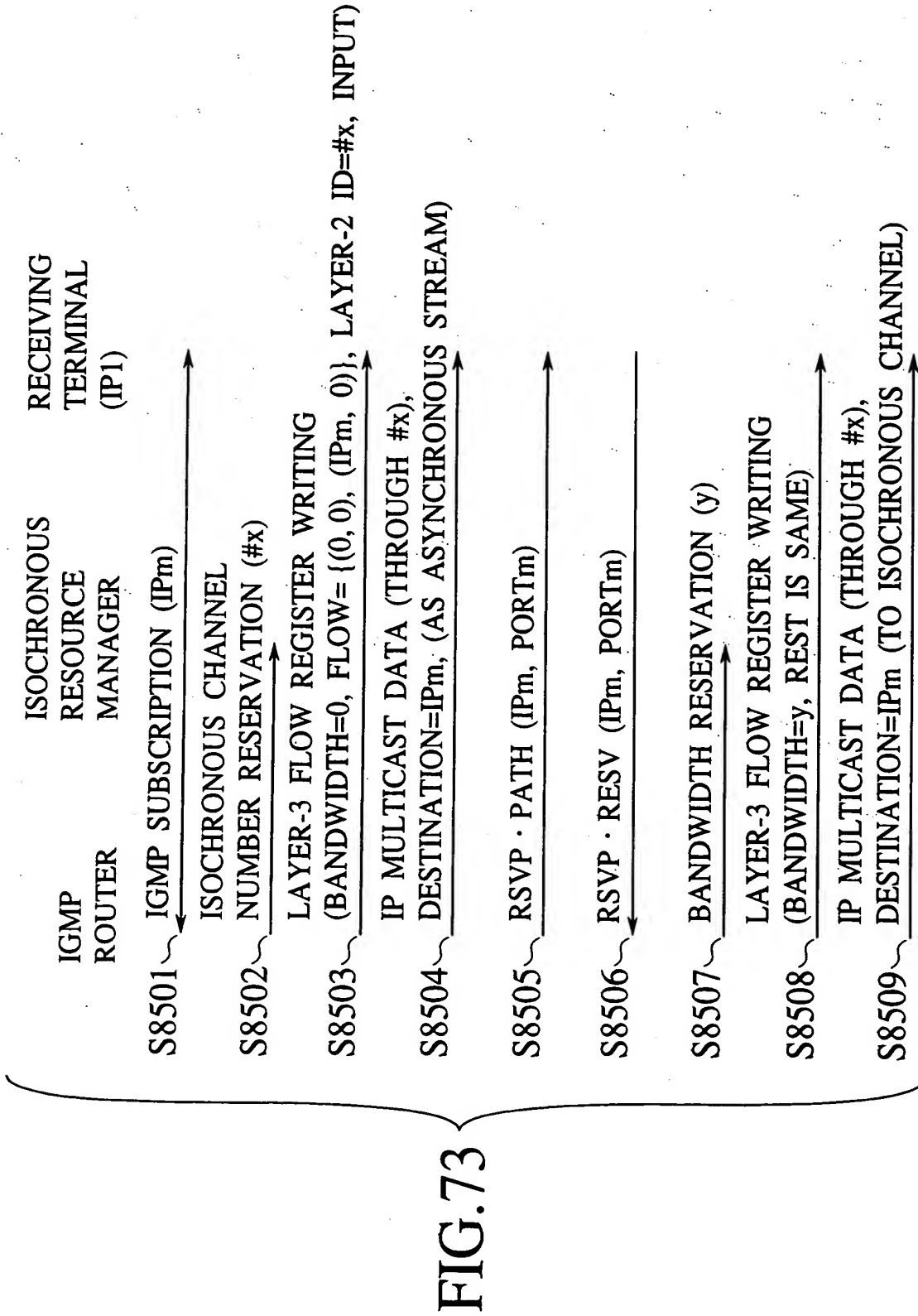
LAYER-3 FLOW REGISTER

BANDWIDTH	
FLOW ID	-----
	SOURCE IP ADDRESS (0)
	SOURCE PORT NUMBER (0)
	DESTINATION IP ADDRESS (IPm)
	DESTINATION PORT NUMBER (0)
LAYER-2 ID	

	LAYER-2 TYPE (IEEE 1394)
	ID TYPE (ISOCRONOUS CHANNEL NUMBER)
	ID (#x)
DIRECTION (OUTPUT)	
CONNECTION COUNTER	

FIG.72





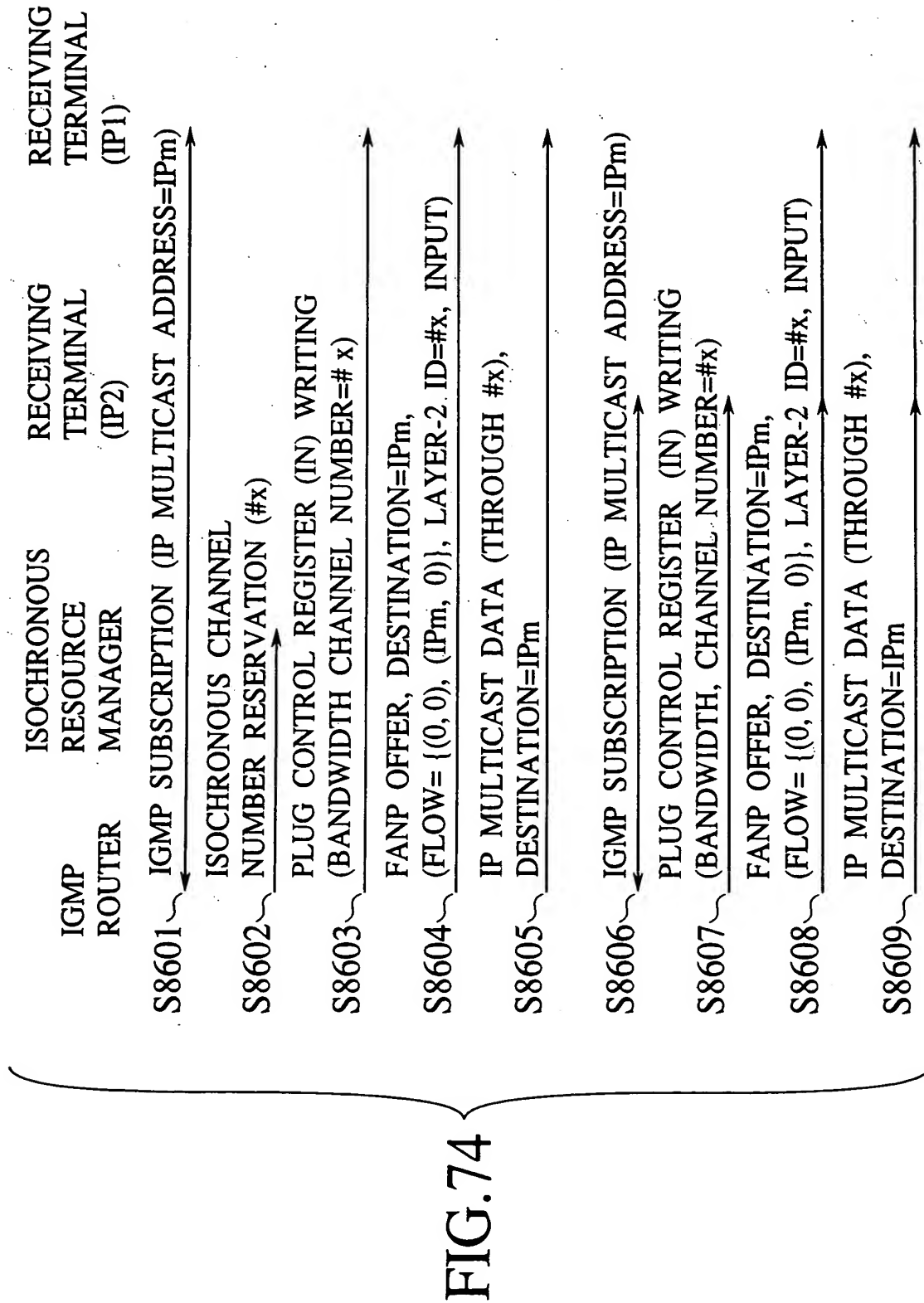


FIG.75

FANP OFFER MESSAGE

VERSION NUMBER	
FLOW ID	SOURCE IP ADDRESS (0)
	SOURCE PORT NUMBER (0)
	DESTINATION IP ADDRESS (IPm)
	DESTINATION PORT NUMBER (0)
LAYER-2 ID	LAYER-2 TYPE (IEEE 1394)
	ID TYPE (ISOCRONOUS CHANNEL NUMBER)
	ID (#x)
DIRECTION (INPUT)	

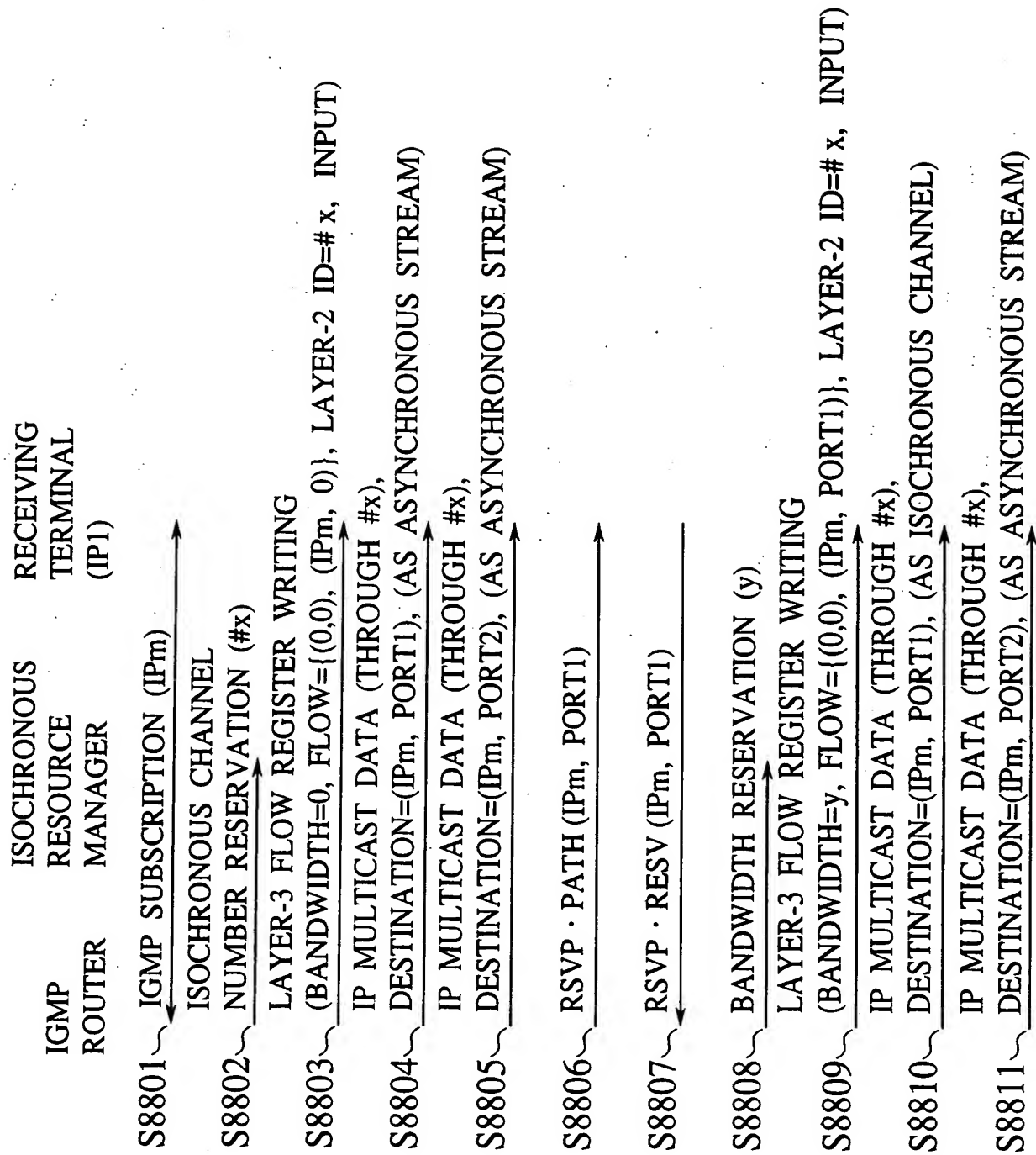


FIG.76

FIG.77

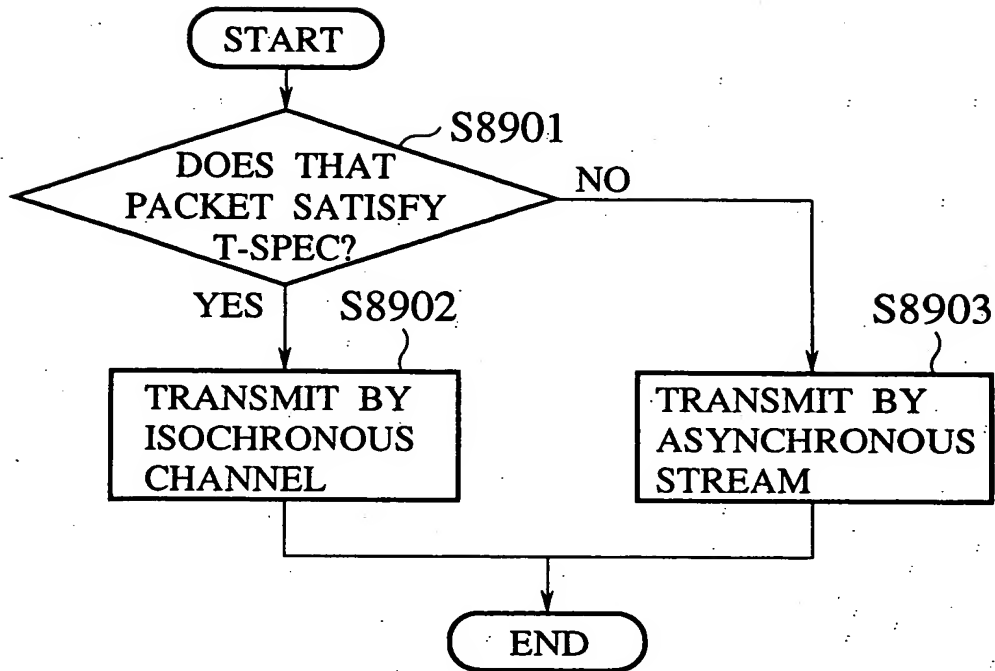
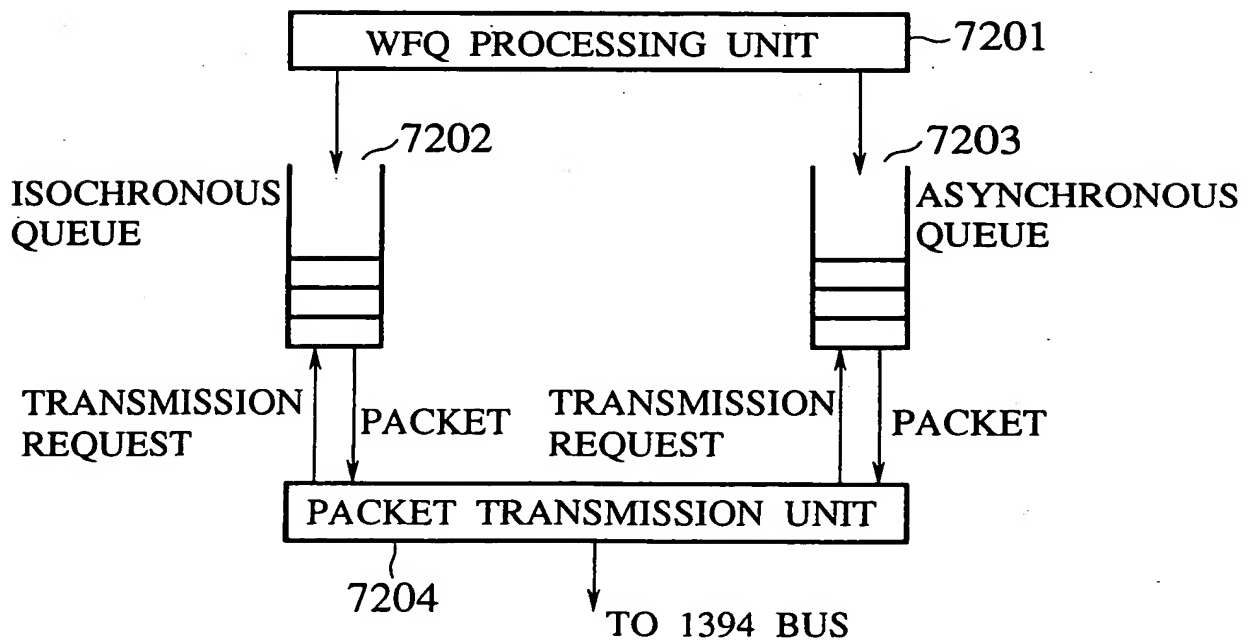


FIG.78



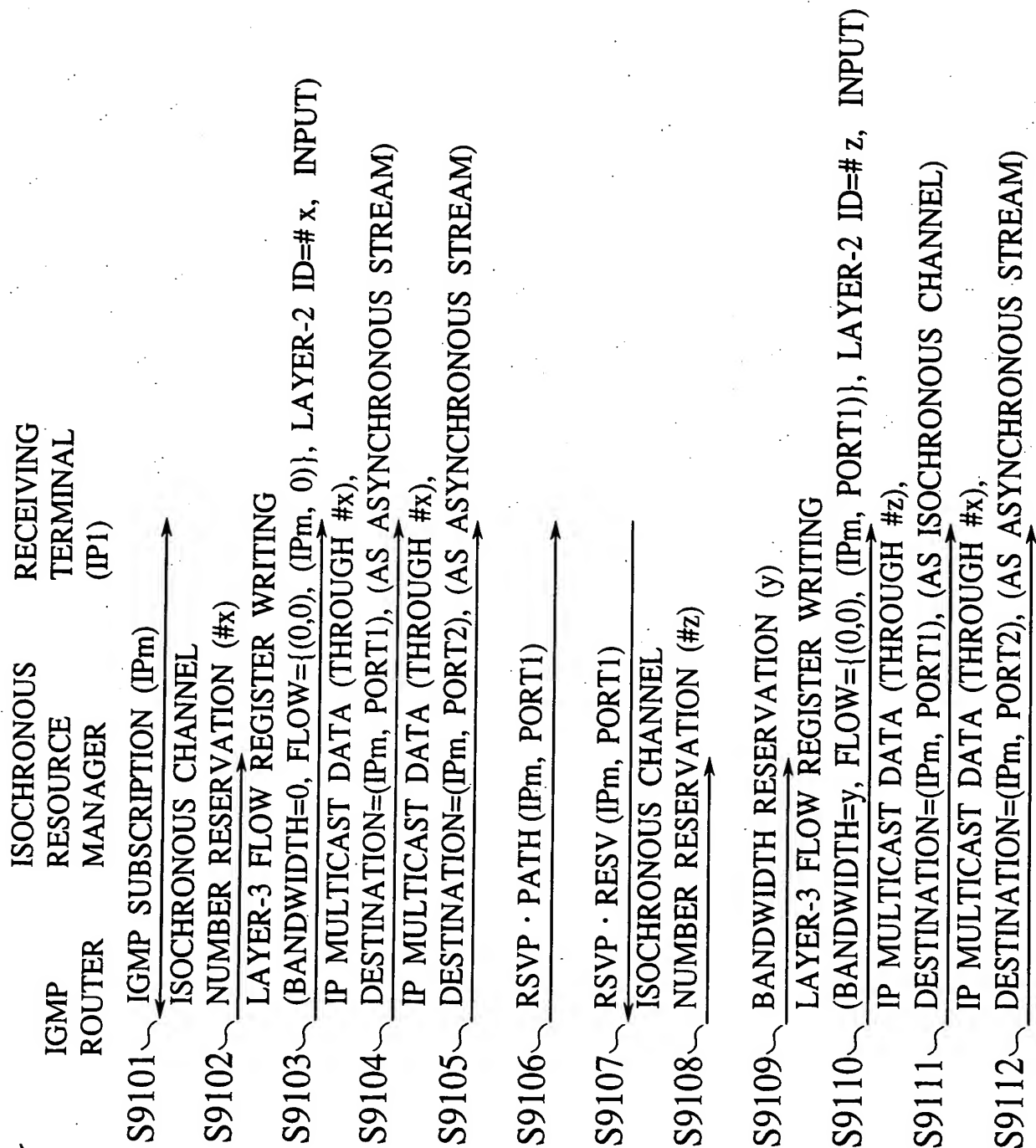


FIG.79

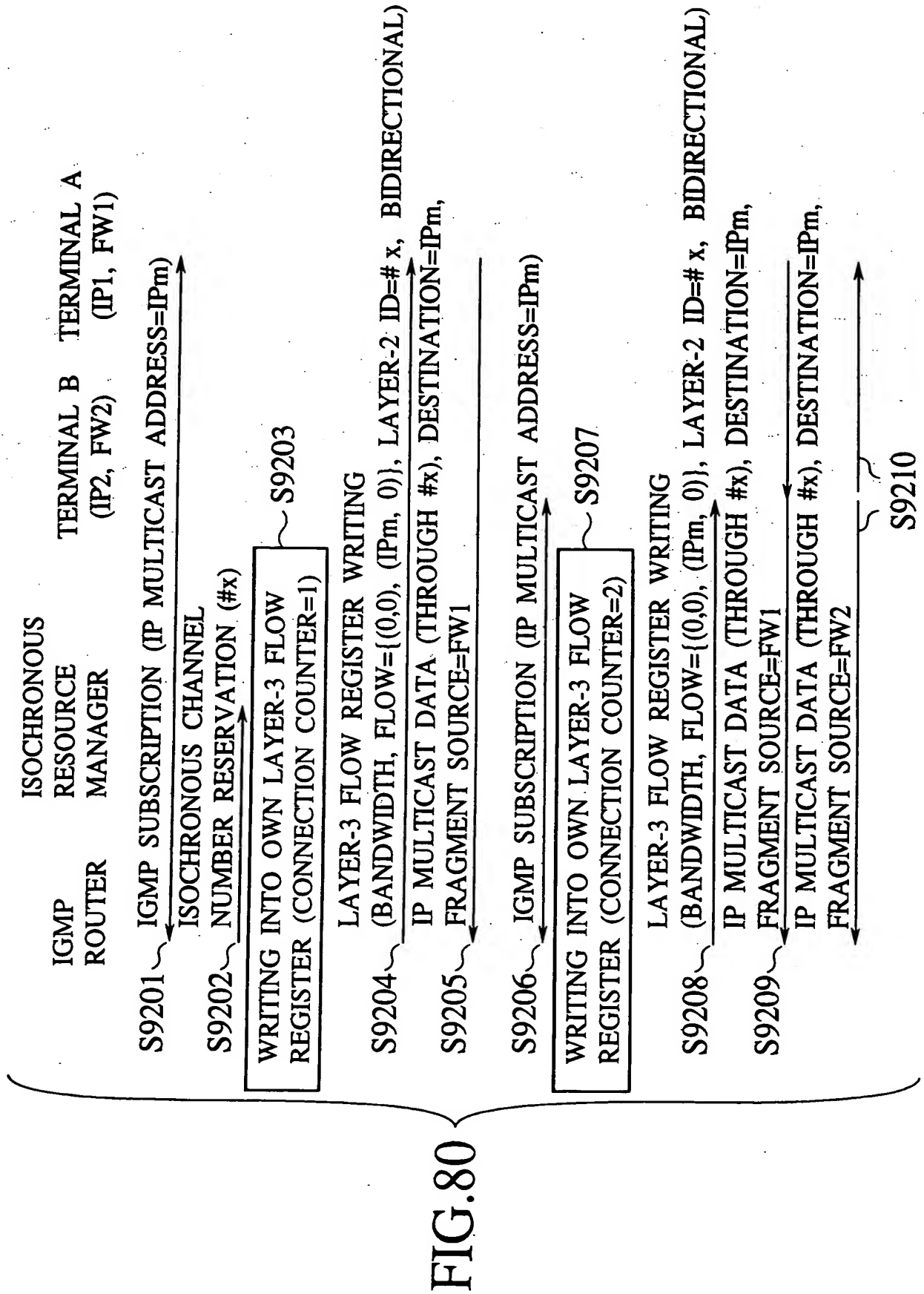


FIG.81A

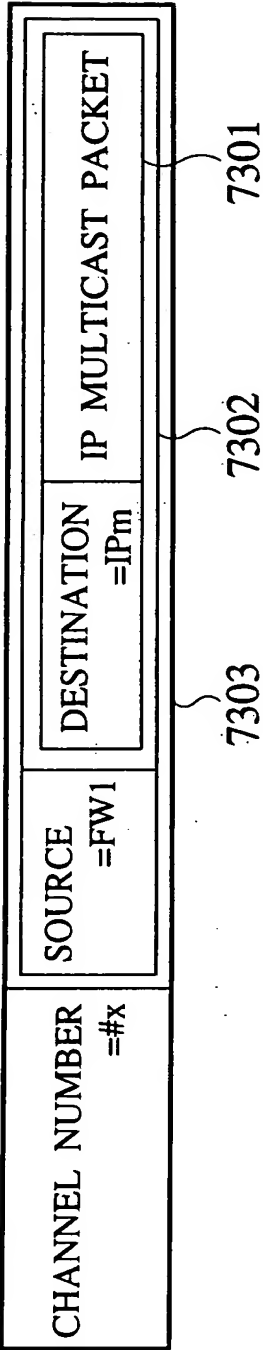
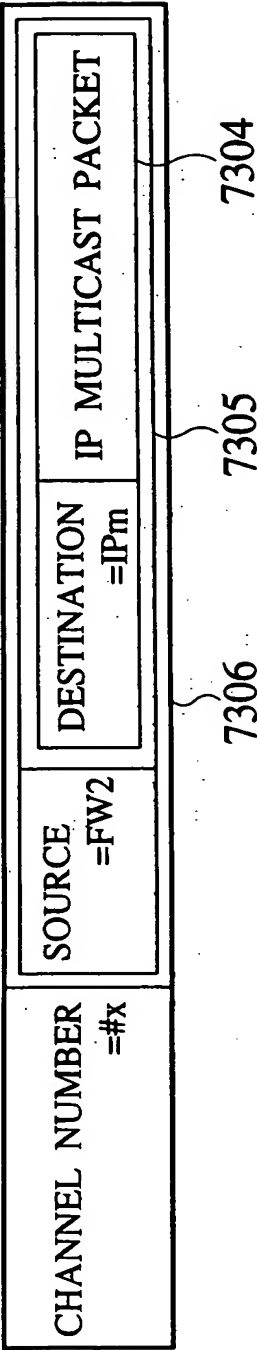
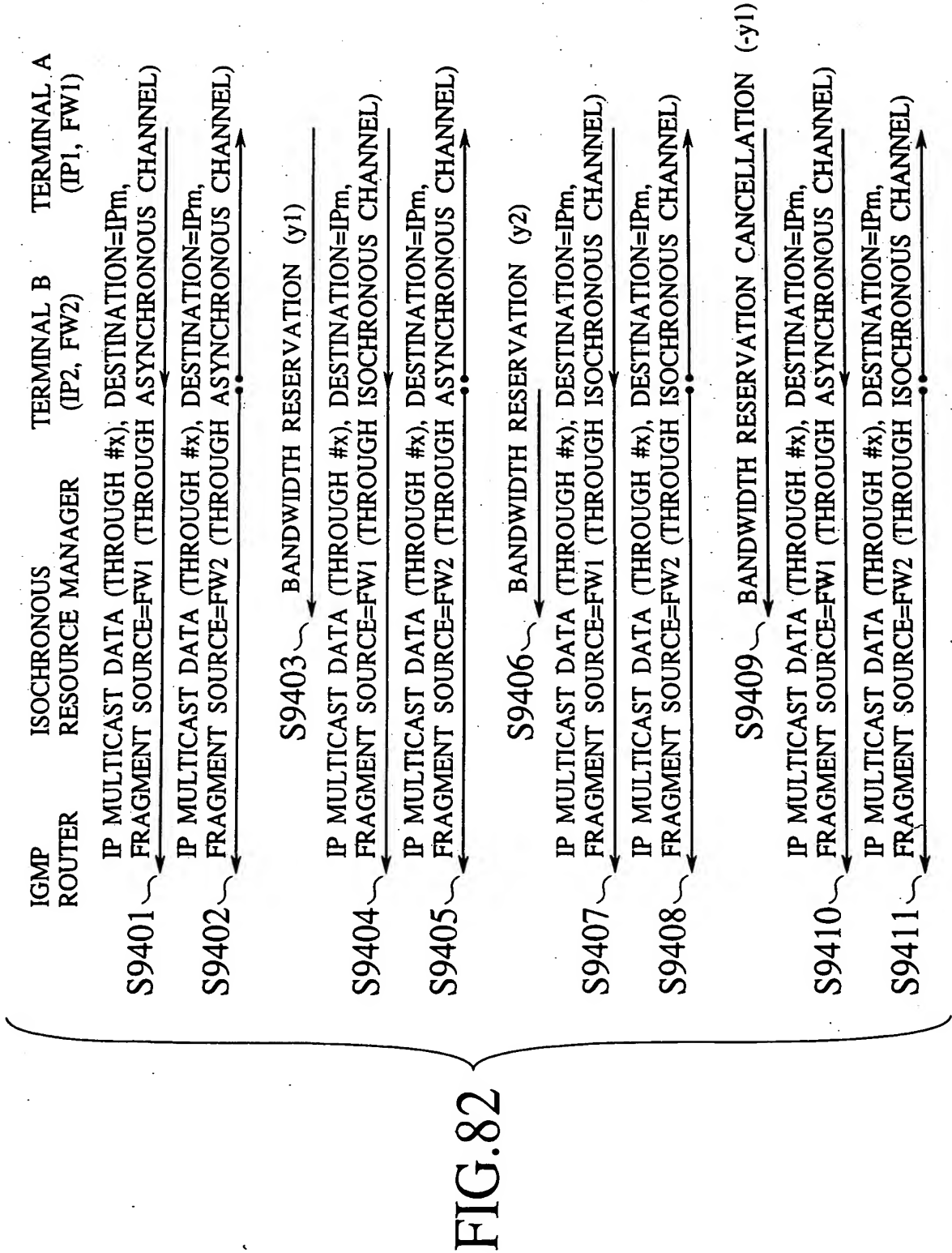


FIG.81B





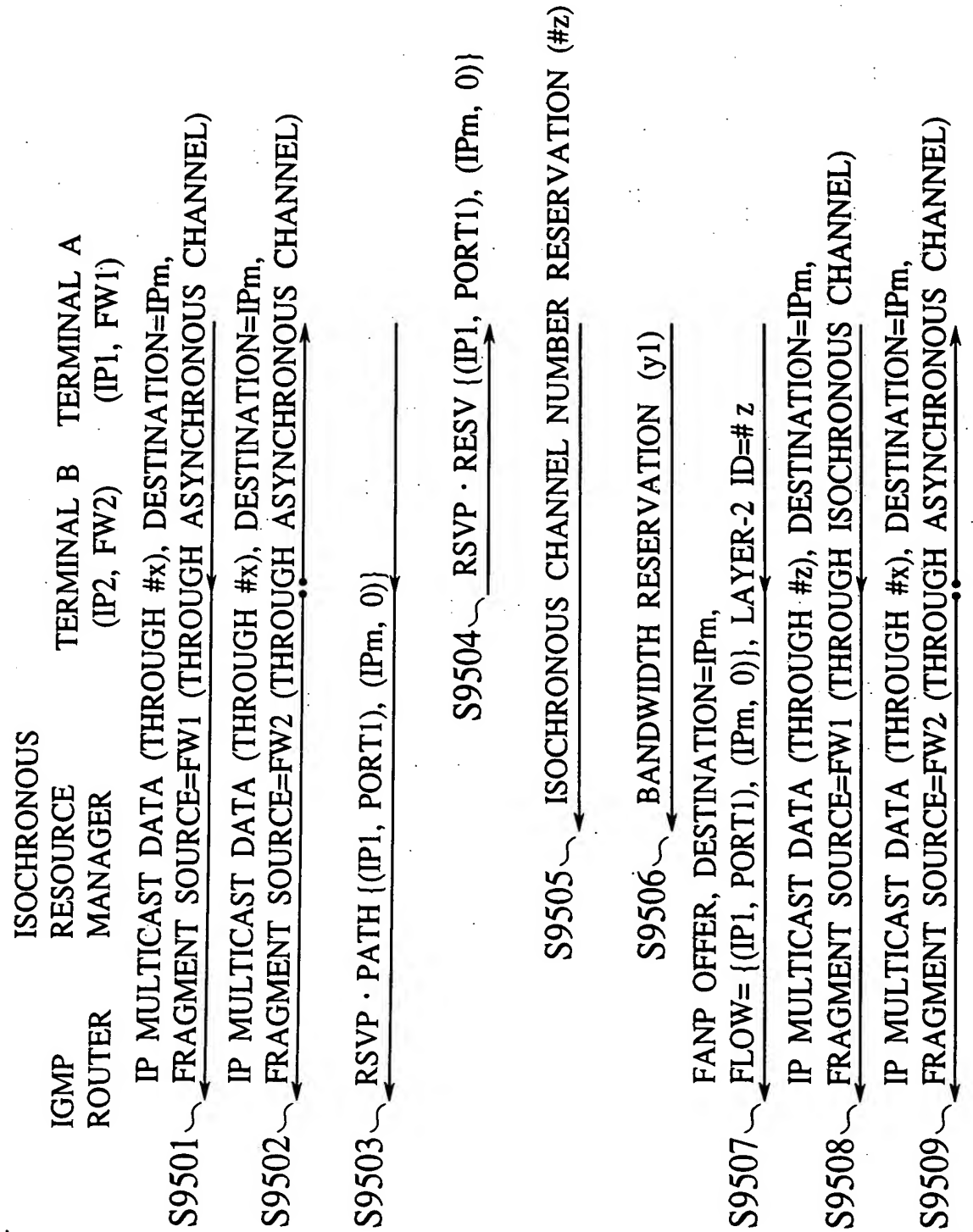


FIG.83